Research Report KTC-91-13

ANALYSIS OF TRAFFIC ACCIDENT DATA IN KENTUCKY (1986 - 1990)

by

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in cooperation with Kentucky State Police Commonwealth of Kentucky

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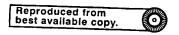
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INTRODUCTION

Several reports have previously been prepared dealing with calculating traffic accident rates for Kentucky (1, 2, 3, 4, 5, 6) and preparation of the problem identification portion of Kentucky's Annual Highway Safety Plan (7, 8, 9, 10, 11, 12). This is the fifth report providing a combination of those two report areas (13,14,15,16). Traffic accident data for the five-year period of 1986 through 1990 were used in the preparation of this report.

Kentucky has a systematic procedure to identify locations that have abnormal rates or numbers of traffic accidents. However, before that procedure may be utilized, average accident rates and numbers must be determined for appropriate highway categories and for rural and urban areas. A primary objective of this study was to determine average traffic accident statistics for Kentucky. Those statistics may then be used in the high-accident location identification program to identify high-accident locations. Those locations are then inspected and their accidents are summarized and recommendations are presented, when applicable, for improvements. A past study involved development of accident reduction factors that may be used in the cost-optimization procedure to rank proposed safety improvements (17).

A highway safety program is prepared each year for Kentucky in order to comply with Section 402, Title 23 of the United States Code. This program includes the identification, programming, budgeting, and evaluation of safety projects having the objective of reducing the number and severity of traffic accidents. The data presented in this report may be included as the problem identification portion of Kentucky's Annual Highway Safety Plan.

PROCEDURE

Accident and volume data bases were used to obtain traffic accident statistics. Traffic accident data are currently obtained from the computer accident tape containing all police-reported accidents. Prior to 1987, accident data were obtained from the computer software package "Records Analysis for Problem Identification and Definition (RAPID)". The format of Kentucky's Uniform Police Traffic Accident Report form was modified in 1987. That change resulted in the RAPID file not being available after 1986 so summaries were prepared from an analysis of the accident tapes. Volume data were obtained from a computer file containing traffic volumes for all state maintained highways. The traffic volume for a given year was placed in the statewide mileage tape. The statewide mileage tape was used to obtain the roadway information needed to compute accident rates as a function of various roadway characteristics such as number of lanes and the rural or urban designation.

A computer program using the accident tape and the statewide mileage tape was used to calculate rates for the state-maintained system. A separate computer program was used to obtain additional accident summaries considering all reported traffic accidents.

Rates were calculated for: 1) state-maintained roads having known traffic volumes, route numbers, and mileposts and 2) all streets and highways on and off the state-maintained system. Rates were provided in terms of accidents per 100 million vehicle-miles (ACC/100 MVM) where traffic volumes could be determined. Population was used as the measure of exposure in instances where traffic volume could not be used as the exposure measure. Population data from the 1990 census were used.

In addition to average accident rates, critical rates and numbers of accidents are required for the high-accident location program. Both types of rates were calculated. The following formula was used to calculate critical accident rates:

$$A_c = A_a + K(sqrt(A_a/M)) + 1/(2M)$$
 (1)

in which

A_c = critical accident rate,

A = average accident rate,

sqrt = square root,

K = constant related to level of statistical significance selected (a probability of 0.995 was used wherein K = 2.576), and

M = exposure (for sections, M was in terms of 100 million vehicle-miles (100 MVM); for spots, M was in terms of million vehicles).

To determine the critical number of accidents, the following formula was used:

$$Nc = N_a + K(sqrt(N_a)) + 0.5$$

(2)

in which

 N_c = critical number of accidents and N_a = average number of accidents.

There are 18 highway safety problem areas (standards) identified by the National Highway Traffic Safety Administration. Problem areas recently identified for emphasis include alcohol and occupant protection. To identify problems in these areas, as well as any of the other "highway standard" areas, the analyses focused on the following:

- 1. County Accident Statistics,
- 2. City Accident Statistics,
- 3. Alcohol-and Drug-Related Accidents,
- 4. Occupant Protection,
- 5. Speed-Related Accidents,
- 6. Pedestrian Accidents,
- 7. Bicycle Accidents,
- 8. Motorcycle Accidents,
- 9. School Bus Accidents,
- 10. Truck Accidents,
- 11. Vehicle Defects, and
- 12. General Trend Analysis.

STATEWIDE ACCIDENT RATES

All of the rates referred to in this section apply to state-maintained roads having known traffic volumes, route numbers, and mileposts. Accident rates are given in terms of accidents per 100 million vehicle-miles (ACC/100 MVM).

A comparison of 1986, 1987, 1988, 1989 and 1990 accident statistics is shown in Table 1. It should be noted that, in 1988, there was an increase in the number of miles for which data were analyzed. The reason for the increase in the number of miles included in the analysis was that the maintenance responsibility for over 2,000 miles of highways was transferred to the Kentucky Transportation Cabinet from various local agencies. It should also be noted that, in addition to the analysis of 1990 accidents, new traffic volumes were used for 1987 through 1989 which resulted in small changes in the rates previously reported. In some cases, there were large fluctuations in traffic volumes from one year to the next which were apparently due to the estimating procedure used where actual counts were not available. Therefore, the decision was made to use the current volume tape which contained estimates of traffic volumes for the preceding years. This method was used to produce more consistent results.

The number of accidents increased in 1990 compared to the average of the previous four years. This increase in total accidents was more than offset with an increase in vehicle miles driven. The overall accident rate in 1990 was 273 accidents per 100 million vehicle-miles (ACC/100 MVM). This was the lowest accident rate in the five-year study period. The highest rate was in 1986 (320 ACC/100 MVM) with a general decreasing trend in the accident rate. The decrease in the overall rate corresponded with the increase in mileage. The number of accidents per mile has decreased slightly with a range of from 3.18 accidents per mile in 1987 to 3.00 accidents per mile in 1988. The number of vehicle miles driven increased substantially in 1990 compared to the previous four-year average as a result of both the increase in the number of miles and an increase in traffic volume (AADT). The

fatal and injury accident rates also showed a decrease in 1990 compared to the previous four-year average. As with the overall accident rate, the fatal and injury rates were lower in 1988 through 1990 compared to 1986 and 1987. The fatal accident rate for 1989 and 1990 was approximately 2 ACC/100 MVM which was a decrease from the maximum of 2.47 ACC/100 MVM in 1987. The injury accident rate has remained fairly stable from the lowest rate of 83 ACC/100 MVM in 1990 to the maximum of 90 ACC/100 MVM in 1986.

An analysis of statewide accident rates as a function of several variables, such as highway system classification, was conducted. Also included is information concerning the percentage of accidents occurring for various road conditions and during darkness. Results are presented in APPENDIX A.

Accident rates required to implement the high-accident spot-improvement program in Kentucky are average rural and urban rates by highway type. Current classification is basically by number of lanes, with an additional separation of four-lane highways by divided and undivided highways. Also, interstates and parkways are classified separately. Rates for rural highways for the five-year period (1986-1990) are listed in Table 2, and Table 3 contains rates for urban highways. Highways were placed into either the rural or urban category based upon the rural-urban designation denoted on the Statewide Mileage File. For sections having a volume, route, and milepost cited in the Statewide Mileage File, the rural or urban and highway type classifications were determined. The number of accidents for each section was then obtained from the accident file. The total accident rate per 100 million vehicle miles, as well as injury and fatal accident rates, were calculated.

On rural highways, four-lane undivided and one-lane highways had the highest rates (Table 2). These two highway types also had the smallest number of miles except for three-lane highways. Four-lane undivided highways had the highest injury accident rate. The highest fatal accident rates were on one-lane and four-lane undivided highways. Interstates had the lowest rates, followed closely by parkways. The advantage of median-separated highways is shown when comparing rates for four-lane divided (non-interstate or parkway) and four-lane undivided highways. The overall accident rate for the divided highway (which would not typically have access control) was less than one half that of the undivided highway.

On urban highways, the highest overall accident rate was on four-lane undivided highways, followed by two-lane highways (Table 3). Those two highway types also had the highest injury accident rates while two-lane highways had the highest fatal accident rates. The lowest rates were on interstates and parkways.

Tables 2 and 3 show that the overall total accident rate on urban highways was over twice that on rural highways. Also, the injury rate on urban highways was

over 60 percent greater than that for rural highways. However, the fatal accident rate on urban highways was less than one half that for rural highways.

Variations in accident rates by rural and urban highway-type classifications over the five-year period are listed in Table 4. The decrease in accident rates in 1990 compared to the 1986 through 1989 average was shown to have occurred on both rural and urban highways. The decrease in the overall accident rate in rural areas (3.9 percent) was less than in urban areas (12.6 percent). The largest variations in rates tended to occur for the roadway types having the lowest number of miles. The largest decreases in rates occurred on rural three-lane and one-lane roadways and on urban interstates. The largest increases in rates occurred on both urban and rural parkways and rural four-lane undivided highways. Trends in overall accident rates representative of rural and urban areas are shown graphically in Figure 1 for the period 1986 through 1990. In addition, trends in accident rates for types of highways are shown for rural highways (Figure 2) and urban highways (Figure 3).

Average rates listed in Tables 2 and 3 may be used to determine critical accident rates for sections of highway of various lengths. In addition to highway sections, Kentucky's high-accident location procedure uses highway spots, defined as having a length of 0.3 mile and representing a specific identifiable point on a highway. Statewide accident rates for "spots", by highway-type classification, are listed in Table 5 using 1986 through 1990 data.

The first step in Kentucky's procedure for identifying high-accident locations involves identifying spots and sections that have more than the critical numbers of accidents. Then, the accident rates for those locations are compared to critical accident rates. Statewide averages and critical numbers of accidents for "spots" and 1-mile sections by highway-type classification are presented in Table 6 for 1986 through 1990. Critical numbers of accidents, such as those listed in Table 6, are used to establish the "number of accidents" criterion for determining the initial list of locations. For example, six accidents in this time period would be a critical number of accidents for a 0.3-mile spot for a rural, two-lane highway. Critical numbers of accidents for various section lengths were determined for each highway type using Equation 2. Results are presented in tables in APPENDIX B. Section lengths up to 20 miles for rural roads and up to 10 miles for urban roads are included.

After the initial list of locations meeting the critical number criterion is compiled, comparisons between accident rates for those locations and critical accident rates are made. Critical accident-rate tables for highway sections are presented in APPENDIX C. Critical accident rates for the various rural and urban highways were determined as a function of section length and traffic volume (AADT). The rates are listed in units of accidents per 100 MVM and were calculated using Equation 1.

Critical accident-rate tables for "spots" are contained in APPENDIX D. Those rates are presented in units of accidents per million vehicles and also were determined using Equation 1.

COUNTY ACCIDENT STATISTICS

Accident rates were calculated for each county considering 1) only the state-maintained system and 2) all roads within the county. The accident rates are presented in terms of ACC/100 MVM. Total accident rates were calculated for both categories. Also, using all roads in the county, accident rates were calculated considering fatal accidents only and fatal-or-injury accidents only. Those rates are presented in Table 7. Total miles travelled in each county were determined by combining miles travelled on roads having known traffic volumes with those having no recorded volumes. The statewide mileage tape was used to tabulate vehicle-miles travelled by county on roads having traffic volume counts. The difference between this statewide total of vehicle-miles travelled on roads having known traffic volumes and the total estimated miles driven in the state was then distributed to each county based upon the proportion of registered vehicles in each county to the total in the state. The total miles driven in each county was then obtained by adding the known miles driven on the state-maintained highway system and the estimated miles driven on the remaining streets and highways.

To assist in the analysis of county accident statistics, county populations in descending order were tabulated and presented in Table 8. The populations use data from the 1990 census. The counties were then grouped into five categories based upon population. Using accidents on all roads in the county, average and critical accident rates were calculated (Table 9). The total accident rate and injury-or-fatal accident rates increased as population increased while the fatal accident rate decreased with increased population. The critical accident rate was calculated using Equation 1. Critical rates (in terms of accidents per 100 million vehicle-miles) were calculated for total accidents, fatal accidents, and injury-or-fatal accidents. The numbers of counties having rates above critical in each population category were determined. The total number was 41 for total accidents, 31 for injury-or-fatal accidents, and none for fatal accidents. The consistency in accident data that has been observed during the past few years is shown in that 38 of the 41 counties determined to have a critical accident rate when total accidents were considered were also identified as having a critical accident rate in the previous report (16).

Table 10 contains a list of numbers of accidents and total accident rates for all counties grouped by population category (considering all roads in the county). Counties within each population category are listed in order of descending accident rate, with the critical rates identified.

Accident rates also were calculated by county considering only the statemaintained system. Those rates, grouped by population category, are presented in Table 11. The rankings of counties in Tables 10 and 11 are similar. In three of the five population categories, the same county had the highest rate considering all roads or state-maintained roads. For both cases, Mason County (15,000 to 24,999 population category), Boyle County (25,000 to 50,000 population category), and Daviess County (over 50,000 population category) had the highest rate in its population category. In the under 10,000 population category, Fulton County had the highest rate when all roads were considered while Bracken County had the highest rate when considering only state-maintained roads. In the 10,000 to 14,999 population category, Allen County had the highest rate when all roads were considered while Pendleton County had the highest rate considering only statemaintained roads. For all roads, Daviess County, followed by Fayette, Jefferson, and Kenton Counties, had the highest rates in the state. Mason County, followed by Daviess County, had the highest rates when considering only state-maintained roads. Lyon County had the lowest rate in the state in both cases. Accident rates were higher when all roads were considered compared to rates for only the statemaintained system.

Using accidents on all roads in the county, injury or fatal accident rates are listed in Table 12 in descending order by population category. Counties having critical rates are identified. Counties having the highest rates for their population categories were Owen, Lewis, Harrison, Jessamine, and Daviess. Daviess County had the highest rate in the state while Lyon County had the lowest rate.

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Similar rates for fatal accidents are listed in Table 13. Counties having the highest rates for their population categories were Menifee, Estill, Marion, Perry, and Pike. Except for Marion County, these counties are all in the southeastern section of Kentucky. The highest rates were generally for the smallest counties. No county was identified as having a critical fatal accident rate.

A summary of other miscellaneous accident data used in the problem identification process is presented by county in Table 14. This table includes the number of accidents by county by year; percent change in the 1990 accident total from the previous four-year average; percentages of accidents involving alcohol, drugs, and speeding; percentage of fatal accidents; percentage of injury-or-fatal accidents; and percentage of drivers using safety belts.

CITY ACCIDENT STATISTICS

Accident statistics were analyzed for cities by using the 1986 through 1990 accident data. The primary group of cities included in the analysis were those having a population over 2,500 that were incorporated and had a police agency. Incorporated cities were eliminated if they did not have a police agency. Incorporated cities in

Jefferson County, such as St. Matthews, Jeffersontown, and Shively, were included separately from Louisville because of a desire to analyze accidents for each police reporting agency. Therefore, for Louisville, only the population of the city area was included instead of a metropolitan area population.

Table 15 is a summary of accident rates for cities having populations more than 2,500 that are incorporated and have police agencies. The cities also had to be included in the 1990 census. That table included 113 cities. Rates in terms of ACC/100 MVM are listed for the state-maintained system while rates in terms of accidents per 1,000 population are listed using all streets in the city. The number of accidents in a city on the state-maintained system was obtained using the city code given on the statewide mileage tape. The number of accidents in a city on all roads was obtained using the code given on the accident tape. The table notes the few cities in which a code was not available on the statewide mileage tape such that data for only the state-maintained system could not be obtained.

Additional statistics are listed for each of those cities in Table 16. Rates for fatal accidents, pedestrian-motor vehicle accidents, bicycle-related motor vehicle accidents, and motorcycle accidents are provided. Those rates are in terms of accidents per 10,000 population. Percentages of accidents involving speeding or alcohol are also listed.

Total accident rates for all cities listed in the 1990 census are summarized in APPENDIX E (Table E-1). A total of 435 cities were listed in the census. Included for 343 cities were population, number of accidents, and accident rate (accidents per 1,000 population). In order to obtain accident information, a code for the city must be available. No such code was available for 92 of the cities. These were generally the smallest cities.

Accidents on the state-maintained system of highways within a city generally consisted of approximately one-third of all the accidents occurring within a city. Therefore, total accident rates were used to determine critical accident rates. Accident rates on the state-maintained system, by city and by population category, are shown in Table 17. The cities are listed in descending order by accident rate. As noted in Table 15, the cities that did not have a city code listed in the statewide mileage tape would not be listed in Table 17 since data could not be obtained for the state-maintained system only. Lexington, Richmond, Erlanger, Morehead, Grayson, and Falmouth had the highest accident rate on state-maintained streets in their population category. Cities in the 1,000 to 2,499 population category are also included in this table. A total of 162 cities is listed in this table. The average accident rate for all cities in a category is also listed. The rates were higher for cities in the population categories between 5,000 and 55,000. The rates were lower for the highest and lowest population categories (the lowest rate was for the 1,000 to 2,499 population category).

Total accident rates for cities by population category are listed in Table 18. They are tabulated in order of descending accident rates and critical rates are identified. Thirty nine cities were identified as having total accident rates above critical. Louisville, Paducah, Florence, London, and Prestonsburg had the highest total accident rates in their respective population ranges. Fatal accident rates, by city and population category, are listed in Table 19. They also are tabulated in order of descending fatal accident rates. Lexington, Paducah, Elizabethtown, Hazard, and Hartford had the highest fatal accident rates in their respective population ranges with Paducah the only city identified as having a critical accident rate.

ALCOHOL- AND DRUG-RELATED ACCIDENTS

Alcohol- and drug-related accidents continue to be one of the highest priority problem identification areas and considerable emphasis is being placed on programs to impact those problems. In Kentucky, the number of traffic accidents in which alcohol was listed as a contributing factor on the accident report has averaged about 7,800 per year for the past five years. Alcohol-related fatal accidents (fatal accidents with alcohol listed as a contributing factor on the police report) have averaged 186 per year during the past five years. If the cost of an average motor-vehicle accident is used, the estimated annual cost of alcohol-related accidents in Kentucky is about \$109 million.

The effectiveness of alcohol enforcement programs has varied throughout the years for various parts of the country. Several enforcement programs have been conducted in Kentucky and evaluations of some of the programs have been documented (18). Results from the programs of increased enforcement in Fayette, McCracken, and Warren counties indicated a significant reduction in alcohol-related accidents during enforcement hours of the program. There were dramatic increases in DUI arrests in the three areas evaluated. DUI conviction rates varied from 90 percent in Fayette County to 77 percent in McCracken County and 55 percent in Warren County. Approximately 90 percent of the respondents to a survey questionnaire were in favor of Traffic Alcohol Programs as a means of reducing alcohol-related accidents. Benefit-cost ratios were calculated and were determined as being greater than 1.0 for all areas evaluated. Very similar results were obtained after an impact evaluation of traffic alcohol programs in Jefferson County (19).

The number of alcohol-related accidents has remained fairly constant during the period from 1985 through 1990. There had been a higher number of alcohol-related accidents prior to this time period. In 1984, there were 9,007 alcohol-related accidents (6.6 percent of all accidents). This number decreased to the relatively constant level of 7,760 in 1986; 7,671 in 1987; 7,890 in 1988; 7,669 in 1989; and 8,052 in 1990. The number of alcohol-related accidents increased by 3.8 percent in 1990 compared to the previous four-year average and was the highest number since 1984. Alcohol-related accidents represent 5.4 percent of all accidents during this five-year

period. The number of alcohol-related fatal accidents in 1990 (196) increased by 6.3 percent over the 1986-1989 average (184).

To identify alcohol-related accident problem areas, percentages of accidents involving alcohol were summarized for counties and cities as shown in Tables 20 and 21, respectively. In Table 20, number and percentage of accidents involving alcohol were determined by considering all drivers and two age categories (16 through 18 years and 19 through 20 years). This allowed a separate analysis for young drivers. The counties are listed by county population group in order of descending percentages of alcohol accidents for all drivers. Counties in each population category having the highest percentage of accidents, considering all drivers, involving alcohol are Elliott, Casey, McCreary, Floyd, and Christian.

The information provided in Table 20 also may be used to determine the counties that have the highest percentages of accidents involving alcohol for young drivers by county population category. The counties identified as having the highest percentages of alcohol-related accidents, considering only young drivers, were not typically the same as those identified when all drivers were considered. For the 16 through 18 years of age category, the counties in each population category having the highest percentages of accidents involving alcohol are Robertson, Casey, Clay, Floyd, and Madison. For the 19 to 20 age category, counties having the highest percentage are Robertson, Morgan, McCreary, Nelson, and Christian. No county had the highest percentage for each group of drivers.

Table 21 is a summary of number and percentage of accidents involving alcohol for cities. For each population category, cities having the highest percentages of accidents involving alcohol are Lexington, Covington, Independence, Villa Hills, and Hickman.

Additional analyses were performed to show the number and rate of alcohol convictions by county (Table 22). Rates are in terms of convictions per 1,000 licensed drivers and convictions per alcohol-related accident. Five years of conviction data (1986 through 1990) were used in the analysis. Those same rates are presented in Table 23 with counties grouped by population ranges and rates are listed in order of descending percentages. Counties in each population group having the lowest rates of alcohol convictions per 1,000 licensed drivers were Hickman, Green, Harrison, Boyle, and Campbell. Counties having the lowest rates of alcohol convictions per alcohol-related accident were Wolfe, Edmonson, Harrison and Marion, Graves, and Campbell. Counties having low rates for either convictions per 1,000 licensed drivers or convictions per alcohol-related accident may be candidates for increased enforcement or other special programs (especially if they have a high percentage of alcohol-related accidents). Data in Table 22 show that, statewide, the number of alcohol convictions increased in 1990 compared to the previous four years. The

number of alcohol convictions in 1990 represents a 16 percent increase from the average of the previous four years.

A comparison was also made between the total alcohol arrests and total alcohol convictions, by county, for the five years of 1985 and 1986 and 1988 through 1990 (Table 24). Accurate arrest data were not available for 1987. The statewide percentage of alcohol convictions per arrest over these five years was 68.4 percent. The percentages varied from a low of 34.0 percent in Breathitt County to a high of over 100 percent in Lyon County. The percentages could be affected, especially in counties having low numbers of arrests and convictions, by the overlapping effects of arrests being made and convictions being prosecuted in different calendar years. This would be the reason the conviction percentage could be over 100 percent. Twenty-five other counties had a conviction percentage over 80 percent. Only four other counties had a conviction rate over 85 percent (Bracken, Butler, Fayette, and Mason). In addition to Breathitt County, five other counties had a conviction rate under 50 percent (McLean, Marion, Marshall, Spencer, and Todd). The counties are grouped by population category and are placed in decreasing order of conviction percentage The average conviction percentage did not vary substantially by population category with a 69.5 conviction percent for the highest population category compared to 65.2 percent for the lowest. Counties having the highest conviction percentages in the various population categories were Fayette, Jessamine, Mason, Butler, and Lyon. Counties having the lowest conviction percentages for the various population categories were Hardin, Marshall, Breathitt, Todd, and Spencer.

An important intervention into the pattern of arresting and prosecuting drunk driving cases was revision of the DUI law that resulted in increased penalties. The law became effective July 15, 1984, with the potential for significant impact upon the previous trends of conviction rates. The numbers of arrests, convictions, and conviction rates for the two calendar years immediately after the law became effective (1985 and 1986) as well as 1988 through 1990 were compiled and presented in Table 24. The statewide conviction percentage for these five years after the DUI law was 68 percent compared to a percentage of 44 percent for the two-year period of 1982 and 1983 before the law. There was an average of 43,166 DUI arrests per year in the five-year study period after revision to the DUI law. The conviction rate remained fairly stable after enactment of the DUI law with conviction rates ranging from 64 percent in 1984 and 1988 to 72 percent in 1990.

A drunk-driving offense may be reduced to a charge of reckless driving. This could occur when a person is arrested for drunk driving, because of erratic driving behavior, and field sobriety or BAC tests fail to confirm the drunk-driving charge. In addition, the severity of the penalty for drunk driving could influence police officers and they might reduce a drunk-driving charge to reckless driving. Similarly, in some instances, the judicial system has been responsible for reducing charges from drunk driving to reckless driving. For those reasons, it was determined that a

summary of reckless driving convictions would be beneficial. Numbers of reckless driving convictions and the rate of convictions per 1,000 licensed drivers for each county are presented in Table 26. In the time period of 1986 through 1990 the highest number of convictions was in 1990. The number of reckless driving convictions remained fairly stable over this time period. There had been a general trend of a reduction in reckless driving convictions over the past several years but the trend was reversed with the increase in 1990. Because of the increase in alcohol convictions and the relationship between alcohol convictions and reckless driving convictions, a decrease in reckless driving convictions should be expected. The highest rates occurred in Marion, Boone, and Harlan Counties.

Drugs continue to be listed as a contributing factor in a relatively small percentage of all accidents. There had been a general downward trend in this type of accident until 1987 when there was a slight increase. There was a larger increase in this type of accident in 1988 with the level in 1989 and 1990 similar to that in 1988. There was a slight increase (5.6 percent) in this type of accident in 1990 compared to the 1986-1989 average which would be related to the lower number of such accidents in 1986 and 1987. The lowest number of drug-related accidents occurred in 1986 with 297 accidents (0.21 percent of all accidents) compared to a high of 387 in 1988 (0.26 percent of all accidents). As can be seen, the percentage of accidents in which drugs are identified as a contributing factor is very small.

Percentages of accidents involving drugs by county and population category are presented in Table 27. Counties having the highest percentages of drug-related accidents by population category were Robertson; Casey, Russell and Leslie; Clay; Knox; and McCracken.

Another summary was prepared to show percentages of accidents involving drugs by city population categories (Table 28). Within each population category, cities having the highest percentages of drug-related accidents were Lexington, Paducah, Middlesboro, Fort Wright, and Cumberland. Several of the cities having the higher rates were located in the northern Kentucky area.

OCCUPANT PROTECTION

The percentages of drivers of passenger cars involved in traffic accidents who wore safety belts were listed by county in Table 14. Those percentages are listed in descending order by county population category in Table 29. Those percentages are for the five-year period of 1986 through 1990. The rates varied from a high of 52.4 percent in Fayette County to a low of 7.9 percent in Green County. Considering only 1990 data, the rates varied from a high of 77 percent in Fayette County to a low of 6.9 percent in Clinton County. Considering only 1990 accident data, seven counties (Boone, Campbell, Fayette, Hardin, Jefferson, Scott, and Trimble) had usage rates over 50 percent while ten counties (Bracken, Clinton, Crittenden, Cumberland,

Elliott, Green, Monroe, Owsley, Taylor, and Wayne) had usage rates under 15 percent. It should be noted that local ordinances were enacted in Fayette County effective July 1, 1990 and in the city of Louisville effective July 1, 1991. Observational surveys conducted since enactment of the ordinances have revealed usage rates of about 70 percent in both Lexington and Louisville.

Counties having potential for intensive promotional campaigns are identified in Table 29. Those counties were selected on the basis of their safety belt usage rate, accident rate, location in the state, and accident rate. Counties having low usage rates were identified with the criterion of selecting one county from within each of the 16 Kentucky State Police Posts areas of jurisdiction. When possible, an attempt was made to select counties with high accident rates. Since the usage rate has increased over the past several years, the usage rate considering 1990 accident data was utilized in order to consider the most recent data.

The variance of safety belt usage rate, by year, from 1986 through 1990 is presented in Table 30 along with the relationship between county population and safety belt usage rate. The percentage using safety belts has increased steadily from 1986 through 1990 with large percentage increases each year. Usage by accident-involved drivers in 1990 (44.6 percent) was over two times the usage in 1986 (19.3 percent). This table also shows the higher usage percentages for counties with over 50,000 population. Counties in the over 50,000 population category had a usage rate basically double that for counties in the under 10,000 population category.

Safety belts are recognized as an effective method of reducing accident severity. This is confirmed by data presented in Table 31. This table shows that, when a driver of a motor vehicle is wearing a safety belt at the time of an accident, the chance of being fatally injured is reduced by 78 percent. Also, the chance of receiving an incapacitating injury is reduced by 46 percent and the chance of receiving a non-incapacitating injury is reduced by 31 percent. Safety belts will greatly decrease the possibility of injury in accidents involving large deceleration forces, but some injury or complaint of soreness or discomfort may persist. In many instances, use of seat belts will reduce a severe injury to a less severe injury. In fact, the category of "possible injury", which involves a complaint of pain without visible signs of injury, decreased only eight percent (from 5.82 percent for drivers not wearing safety belts to 5.33 percent for drivers wearing safety belts). The chance of receiving either a fatal or incapacitating injury was reduced by 49 percent. This percentage agrees with national statistics concerning the effectiveness of safety belts in reducing fatal or serious injuries. The reductions in accident severity were found to be statistically significant (probability of 0.99) (20).

The change in accident severity for drivers wearing and not wearing a safety belt is presented in Table 32 for the years 1986 through 1990. The reduction in severity from the use of safety belts has remained consistent. There appears to have

been a trend toward a slight increase in the severity of injuries to drivers not wearing a safety belt over the time period.

Potential savings associated with increased safety belt usage were estimated and are shown in Table 33. This table lists the annual potential reduction in the number of fatalities, serious injuries (those listed as incapacitating on the accident report), and the associated accident cost savings resulting from that reduction. Those savings are given for driver usage rates from 40 to 100 percent. To obtain the current results, 1990 safety belt statistics and cost estimates recommended by the Federal Highway Administration (21) were used (as shown in the footnote in Table 33). An actual usage rate of 32.2 percent (22), as determined in the 1990 statewide usage survey, was used along with a reduction associated with safety belt usage of 78 percent for fatalities and 46 percent for incapacitating injuries. Accident cost estimates were \$1,500,000 for a fatality and \$39,000 for an incapacitating injury (21). For example, if 70 percent of all drivers involved in accidents in Kentucky wore safety belts, there would be a potential annual reduction of about 183 fatalities and a potential annual reduction in the cost of fatalities and serious injuries of approximately 322 million dollars.

A summary of usage and effectiveness of child safety seats for children under the age of four who were involved in traffic accidents is presented in Table 34. Data are for 1986 through 1990. Age categories in the accident file governed the age category that was used. Most children three years of age or younger would be placed in a child safety seat rather than a seatbelt or harness. However, many were coded as wearing a safety belt, so the categories of restraint used were 1) none, 2) safety belt or harness, 3) child safety seat, and 4) any restraint.

Of the 41 fatalities (children age three and under) occurring during the study period, only 14 involved use of a restraint. Also, of 657 incapacitating injuries, only 180 involved use of a restraint. A better measure of effectiveness would be the percentage sustaining a specific injury. This analysis revealed the percentages of fatalities and incapacitating and non-incapacitating injuries were much lower for children who were in a child safety seat or safety belt compared to those using no restraint. Comparison of the "any restraint" and "none" categories revealed there was a 55-percent reduction in fatalities for children in restraints, a 67-percent reduction in incapacitating injuries, a 45-percent reduction in non-incapacitating injuries, and a 38-percent reduction in possible injuries. All reductions, except that for fatal injuries, were determined to be statistically significant (probability of 0.99) (19).

An analysis of the percentage of children in restraints revealed the percentage was highest for rear-seat locations. A comparison of percent usage by year shows that there was a substantial increase in 1988 through 1990 compared to 1986 and 1987. This increase could be related to the addition in 1988 of a penalty to the child restraint law. The most recent usage rate was 63 percent in 1990.

Additional analysis of accident data related to safety belt usage is included in APPENDIX F.

SPEED-RELATED ACCIDENTS

Speed is one of the most common contributing factors in total accidents and fatal accidents. Speed-related accidents, as a percentage of total accidents, has remained relatively constant for the period 1986 through 1990 at between seven and eight percent. The number of speed-related accidents was slightly higher in 1989 and 1990 compared to 1986 through 1988. The number of speed-related accidents increased slightly in 1990 compared to the previous four years. Speed-related fatal accidents have also remained fairly steady during this period, with the largest number in 1986 and the lowest in 1988.

As a means of analyzing speed-related accidents, accidents having "unsafe speed" coded as a contributing factor were summarized by county and population category in Table 35. When arranged in order of decreasing percentages of speed-related accidents, those counties having the highest percentages in each population category were Robertson, Leslie, McCreary, Floyd, and Pike. There appears to be a concentration of counties having a high percentage of speed-related accidents in the southeastern section of the state. A similar summary of accidents involving unsafe speeds for cities was prepared and is presented in Table 36. Those cities having the highest percentages in each population category were Lexington, Hopkinsville, Fort Thomas, Villa Hills, and Hartford.

In addition to accident analysis, the other major area of analysis for unsafe speed was speed convictions. Areas having large percentages of accidents involving speeding and low conviction rates are candidates for increased enforcement. Table 37 presents a summary of speeding convictions by county. Numbers of speed convictions, speed convictions per 1,000 licensed drivers, and speeding convictions per speed-related accident are included. To assist in identifying areas having the potential for increased enforcement, Table 38 was prepared with speeding conviction rates listed in descending order by county population categories. Within each population category, those counties having the lowest speeding conviction rates per 1,000 licensed drivers are Elliott, Monroe, Knott, Letcher, and Jefferson. Counties having the lowest rates of speeding convictions per speed-related accident are Elliott, Jackson, Knott, Letcher, and Pike. There was a predominance of counties having high percentages of speed-related accidents and low rates of convictions in the southeastern section of Kentucky.

The percentage of vehicles exceeding the 55-mph speed limit has been monitored and reported by the Kentucky Department of Highways on a quarterly basis since 1978. The speed limit on rural interstates was raised to 65 mph in June 1987. A summary of data collected as part of the speed monitoring program for 1990

is presented in Table 39. That summary shows 590,289 vehicles were monitored at 29 locations. The percentage of vehicles exceeding 55 mph on all monitored roads, except rural interstates, (using weighting factors to reflect vehicle miles traveled) was 45.9 percent. The percentage of vehicles exceeding the 65 mph speed limit on rural interstates was 35.6 percent.

Another summary was prepared to show overall compliance with the 55-mph speed limit from 1986 through 1990 (Table 40). The speed limit on rural interstates and parkways was increased to 65 mph in 1987. The speed data on both rural and urban interstates show the increase in speeds that occurred after the increase in the speed limit in 1987. A comparison of 85th percentile speeds on rural interstates before and after start of the 65 mph speed limit in June 1987 shows speeds of 65 mph for 1986 compared to 70 mph for 1988, 1989 and 1990. The 85th percentile speeds on urban interstates increased from 64 mph in 1986 to the range of 65 to 66 mph in 1988, 1989 and 1990. The state total percentage of vehicles exceeding 55 mph decreased in 1987 since rural interstates were excluded that year.

GENERAL ACCIDENT STATISTICS

Several types of general statistics were developed for use in analyses of specific problem areas. Included were accident trends over a five-year period, a summary of accidents by police reporting agency, and several types of statistics for accidents involving pedestrians, bicycles, motorcycles, school buses, and trucks.

ACCIDENT TREND ANALYSIS

An analysis of accident trends over the five-year period is summarized in Table 41. The 1990 accidents were compared to an average of the preceding four years (1986-1989). There was a slight increase in total accidents (1.8 percent) when comparing 1990 to the previous four years. The highest number of accidents occurred in 1989 (151,422) with the lowest number occurring in 1986 (140,421). There were also increases in the numbers of fatal and injury accidents as well as the numbers of fatalities and injuries. There were more fatalities and injuries in 1990 than in any of the preceding four years. The number of fatalities ranged from 776 in 1989 to 851 in 1990. The number of injuries varied from 46,807 in 1986 to 54,057 in 1990.

Trends in the number of specific types of accidents also are presented in Table 41. Those trends are discussed in the section dealing with that accident category.

There was a total of 729,888 accidents in the five-year period, of which 3,666 (0.5 percent) were fatal accidents and 169,520 (23.2 percent) were injury accidents. Those accidents resulted in 4,124 fatalities and 254,980 injuries. Using accident cost

estimates recommended by the Federal Highway Administration (20) yields an average annual cost of 2.0 billion dollars for motor-vehicle accidents in Kentucky for the period 1986 through 1990. The average cost of a motor-vehicle accident was approximately \$14,000.

Additional general statistics compiled by county for accidents involving pedestrians, bicycles, motorcycles, school buses, and trucks are included in Table 42. Numbers of accidents and average annual accidents per 10,000 population were included.

PEDESTRIAN ACCIDENTS

The number of pedestrian accidents decreased in 1990 compared to the period 1986 through 1989. The number of pedestrian accidents has remained fairly stable over the time period with a slight downward trend. A summary of pedestrian accident statistics by county and population category is presented in Table 43. Numbers of accidents and annual accident rates per 10,000 population are included. From the listing of accident rates in descending order, the following counties had the highest rates in each population category: Carroll, Anderson, Mason, Henderson, and Kenton. A similar analysis was performed for pedestrian accidents by city and population category. Results are summarized in Table 44 and the following cities had the highest rates in their respective population categories: Louisville, Covington, Newport, Monticello, and Carrollton.

BICYCLE ACCIDENTS

Numbers and rates of motor-vehicle accidents involving bicycles by county are listed in Table 45. Counties were grouped by population category. The counties having the highest accident rate in each category are Carroll, Anderson, Union, Henderson, and Daviess. A similar summary was prepared for cities and the results are presented in Table 46. Cities having the highest rate of bicycle-related accidents in each population category are Louisville, Covington, Madisonville, Elsmere, and Ludlow.

The number of bicycle accidents decreased substantially in 1990 compared to the average of 1986 through 1989. This resulted from the higher number of accidents in 1986 and 1987. The number of bicycle accidents has ranged from 730 in 1989 to 971 in 1986. There has been a general downward trend in the number of motor-vehicle accidents involving bicycles.

MOTORCYCLE ACCIDENTS

County and city statistics for accidents involving motorcycles are presented in Tables 47 and 48, respectively. For each population category, counties having the

highest rates for motorcycle accidents per 10,000 population were Carroll, Leslie, Wayne, Henderson, and McCracken (Table 47). From Table 48, those cities having the highest rates in each population category were Louisville, Paducah, Glasgow, London, and Harlan.

There has been a general decline in the annual number of motorcycle accidents over the five-year period from a high of 1,661 in 1986 to a low of 1,084 in 1989. There was a large decrease (22 percent) in 1990 compared to the 1986 to 1989 average.

SCHOOL BUS ACCIDENTS

School bus accident statistics were summarized for counties and cities and results are presented in Tables 49 and 50. Table 49 lists numbers and rates of school bus accidents by county and population category. Counties having the highest rates in each population category are Metcalfe, Pendleton, Breathitt, Clark, and Fayette. A similar summary was prepared for cities by population categories, as shown in Table 50. Those cities having the highest rates in each population category are Louisville, Ashland, Shively, Lebanon, and Prestonsburg.

The trend analysis presented in Table 41 indicates there has been a general increasing trend in school bus accidents. The annual number of this type of accident ranged from 658 in 1987 to 822 in 1990. The number of this type of accident in 1990 was 11.5 percent higher than for the 1986 through 1989 average.

TRUCK ACCIDENTS

Truck accidents included both single unit and combination trucks. A summary of those accidents by county is given in Table 51. Counties having the highest rates in each population category were Gallatin, Henry, Simpson, Floyd, and Boone. All of these counties except Floyd County have at least one interstate highway within their borders. There is a large amount of coal truck traffic in Floyd County.

The trend analysis shows a steady number of truck accidents over the five-year study period. The number of truck accidents ranged from 10,815 in 1987 to 11,642 in 1986. The number of truck accidents in 1990 represented a 1.6-percent decrease compared to the previous four-year average (Table 41).

VEHICLE DEFECTS

The requirement for an annual vehicle inspection was repealed in 1978. A summary of the involvement of vehicle defects in accidents before and after repeal of that law is presented in Table 52. The percent of accidents involving a vehicle defect

was 5.86 percent before repeal of the vehicle inspection law. The percent increased to 7.09 in the first 19 months after repeal of the law and has averaged 7.0 percent for 1980 through 1990. There has been a general decrease in this percentage since a maximum of 7.55 percent in 1981 with the 6.24 percent in 1990 the lowest since repeal of the vehicle inspection law.

Applying the "before" percentage of accidents involving a vehicle defect (5.86 percent) to the 1986 through 1990 data provides an estimate of the increase in the number of "vehicle defect" related accidents that may be attributed to repeal of the vehicle inspection law. Applying that "before" percentage yielded 5,945 fewer accidents in the five-year period or an average of about 1,189 accidents per year. The average cost of an accident was about \$14,000 using the accident cost estimates recommended by the Federal Highway Administration (21). Therefore, 1,189 additional accidents would result in approximately 16.6 million dollars per year in accident costs that could be partially attributed to repeal of the vehicle inspection law.

SUMMARY AND RECOMMENDATIONS

STATEWIDE ACCIDENT RATES

For the high-accident-location safety improvement program in Kentucky to be successful, procedures for identifying high-accident locations and scheduling improvements should be used. A computer program has been developed to identify high-accident locations. Vital inputs into this program are average and critical accident numbers and rates for rural and urban highway classifications, as presented in this report.

COUNTY AND CITY ACCIDENT STATISTICS

The various types of accident rates calculated and included in this report were used in the analysis of various problem identification areas.

A program currently exists to provide funds for the purchase of appropriate signs to bring signing on city and county streets and roadways into compliance with the standards included in the Manual on Uniform Traffic Control Devices. A large number of cities have taken advantage of this program which has been expanded to include counties. The following cities have critical accident rates (as shown in Table 18) but have not been included in this signing program. It is recommended that they be considered as candidates for participation in the program.

- 1. Richmond
- 2. Shively
- 3. Shelbyville

- 4. Versailles
- 5. Prestonsburg
- 6. Harlan
- 7. Cold Spring
- 8. Russell
- 9. Columbia
- 10. Scottsville
- 11. Shepherdsville
- 12. Leitchfield
- 13. Oak Grove
- 14. Highland Heights

ALCOHOL-RELATED ACCIDENTS

1. The number of alcohol-related accidents has remained fairly constant from 1986 to 1990. While there was an increase in the number of this type of accident in 1990, the number of accidents has decreased from the level prior to 1985. This may be related to increased enforcement and public information campaigns that have increased public awareness.

As part of the analysis, percentages of alcohol-related accidents were tabulated for counties and cities. In addition, alcohol conviction rates were tabulated by county. Those counties having relatively high percentages of alcohol-related accidents and low average numbers of alcohol convictions per alcohol accident were identified as potential locations where increased enforcement may be beneficial. Counties were also required to have 150 or more alcohol-related accidents during the five-year analysis period to be considered as potential counties for the increased alcohol-related enforcement program. Following is a list of those counties by State Police Post.

Post Number	County
1	McCracken
2	Caldwell
3	Warren
4	Meade
5	Carroll
6	\mathbf{Boone}
7	Lincoln
8	Montgomery
9	Floyd
10	Knox
11	Rockcastle
12	Shelby
13	Breathitt

14	Greenup
15	Taylor
16	Henderson

- 2. An analysis was performed for cities similar to that for counties. However, alcohol conviction rates were not available for cities and consideration was given to conviction rates for counties within which a city was located. Again, the criterion of 150 or more alcohol-related accidents within a five-year period was applied. The following are candidate cities for a program of increased alcohol enforcement.
 - 1. Covington,
 - 2. Richmond,
 - 3. Paducah, and
 - 4. Newport.

OCCUPANT PROTECTION

1. The large potential for reduction in injury and accident costs associated with increased use of safety belts continues to warrant programs having the objective of increasing safety belt usage. Safety belt programs such as those described by the National Highway Traffic Safety Administration (NHTSA) have been conducted in several locations in the past and should continue, with the objectives of increasing awareness of risks of traffic accidents, increasing understanding of benefits of safety belt usage, and providing assistance to organizations willing to promote safety belt usage. This should be implemented on a statewide level. Counties that are candidates for more intensive promotion campaigns were identified in Table 29. A list of those counties, by State Police Post, follows:

County
Fulton
Muhlenburg
Allen
Breckinridge
Carroll
Bracken
Jackson
Lewis
Pike
\mathbf{Bell}
Clay
Anderson
Breathitt

14	\mathbf{Boyd}
15	Clinton
16	Daviess

- 2. Surveys of the use of child safety seats after implementation of the mandatory usage law which became effective in July 1982 have been conducted. Usage has increased, especially after the addition of a penalty provision in 1988. Additional modifications to the current child safety seat law could be enacted to strengthen it further. For example, the driver of a vehicle in which a child subject to the law is riding should be responsible for placing the child in a proper restraint whether or not the driver is the parent or legal guardian.
- 3. A mandatory seat belt usage law for all drivers would provide the greatest potential for increasing safety belt usage. Such laws have been enacted in almost all the states. Data summarized in this report could be used to document potential benefits of increased seat belt usage. A statewide mandatory seat belt law should be considered by the Kentucky General Assembly. In lieu of a statewide law, individual local governments should consider such a law. Observational surveys in Lexington and Louisville show that enactment of a local ordinance can result in a significant increase in safety belt usage.
- 4. To maintain up-to-date usage statistics and to determine the effect of new or modified laws or promotional campaigns, annual statewide observational surveys should be conducted.
- 5. The age at which a child may safely be placed in a safety belt rather than a child safety seat has not been determined. While accident statistics (Table 34) indicate the accident severities between child safety seats and safety belts are similar, a more detailed investigation is needed. An analysis should be conducted through use of a report supplement to be completed by investigating officers when a child in a restraint is involved in an accident.
- 6. More detailed information should be obtained for accidents in which a driver or passenger wearing a safety belt is either fatally or severely injured. A report supplement should be developed for use when an occupant wearing a safety belt receives a fatal or incapacitating injury. With increased safety belt usage, there is likely to be increased injuries and fatalities when a safety belt is used and it would be beneficial to document the circumstances involved.

SPEED-RELATED ACCIDENTS

1. Unsafe speed has been shown to be the primary contributing factor in fatal accidents and the fourth most frequent contributing factor in all accidents (13). Problems were identified for counties and cities by determining the percentages of

speed-related accidents. In addition, speeding conviction rates were tabulated by county. Those counties having high percentages of speed-related accidents and low average number of speeding convictions per speed-related accident were identified as possible locations for increased enforcement. Locations meeting the criteria for accidents and convictions also were required to have at least 200 speed-related accidents during the five-year study period and speed-related accidents were at least 10 percent of total accidents. Following is a list of counties (tabulated by State Police Post) recommended for programs of increased speed enforcement (some posts had no counties listed while others had several):

Post Number	Counties
2	Muhlenburg
3	Edmonson
4	Meade
5	Henry
6	Grant
7	Lincoln, Madison
8	Bath, Lewis, Rowan
9	Floyd, Magoffin, Martin, Pike
10	Bell, Harlan, Knox
11	Clay, Laurel, Whitley
13	Breathitt, Knott, Leslie, Letcher
14	Carter
15	Marion
16	Ohio

- 2. By analyzing speed-related accident rates for cities and applying the criterion of at least 200 accidents during the five-year period and speed related accidents were at least five percent of total accidents, the following cities were recommended for additional programs of speed enforcement:
 - 1. Hopkinsville,
 - 2. Frankfort, and
 - 3. Newport.

GENERAL ACCIDENT STATISTICS

Pedestrians

The accident rate analyses identified Louisville, Covington, and Newport as cities having a high accident rate for pedestrian accidents as well as a large number of such accidents (Table 44). A study to determine factors contributing to this problem in those cities and recommendations for improved traffic control measures,

increased police enforcement, or driver and pedestrian education programs is warranted.

Bicycles

Louisville and Covington also had a high accident rate and number of this type of accident compared to other cities in the state (as with pedestrian accidents). A study of this type of accident could be included with the previously mentioned study of pedestrian accidents.

Motorcycles

Paducah had the highest percentage of this type of accident while McCracken County had the highest percentage in its population category. An evaluation of these accidents in this city and county is warranted.

Vehicle Defects

The percentage of accidents involving vehicle defects has increased since repeal of the vehicle inspection law. It could be concluded that the repeal of that law resulted in additional accidents involving vehicle defects, but a detailed study of defects involved should be conducted to verify such a conclusion. There is a need for such a study to determine whether the defects that have contributed to accidents since repeal of the vehicle inspection law were of the type that might have been detected under the previous inspection program. That study could also reveal types of inspections necessary to detect defects contributing to accidents.

REFERENCES

- 1. Agent, K. R.; "Traffic Accidents in Kentucky (1978)," University of Kentucky Transportation Research Program, UKTRP-81-9, June 1981.
- 2. Agent, K. R.; "Traffic Accident Rates in Kentucky (1980)," University of Kentucky Transportation Research Program, UKTRP-82-11, August 1982.
- 3. Agent, K. R.; "Traffic Accident Rates in Kentucky (1981)," University of Kentucky Transportation Research Program, UKTRP-83-11, May 1983.
- 4. Agent, K. R.; "Traffic Accident Rates in Kentucky (1982)," University of Kentucky Transportation Research Program, UKTRP-84-5, March 1984.
- 5. Salsman, J. M.; and Agent, K. R.; "Traffic Accident Rates in Kentucky (1983)," University of Kentucky Transportation Research Program, UKTRP-85-2, January 1985.
- 6. Agent, K. R.; "Traffic Accident Rates in Kentucky (1984)," University of Kentucky Transportation Research Program, UKTRP-86-1, January 1986.
- 7. Pigman, J. G.; and Agent, K. R.; "Problem Identification for Highway Safety Plan," Report 521, Division of Research, Kentucky Department of Transportation, May 1979.
- 8. Pigman, J. G.; Agent, K. R.; and Crabtree, J. D.; "Problem Identification for Highway Safety Plan," Report 543, Division of Research, Kentucky Department of Transportation, March 1980.
- 9. Pigman, J. G.; Agent, K. R.; and Crabtree, J. D.; "Problem Identification for Highway Safety Plan (FY 1982)," University of Kentucky Transportation Research Program, UKTRP-81-5, May 1981.
- 10. Agent, K. R.; Crabtree, J. D.; and Pigman, J. G.; "Problem Identification for Highway Safety Plan (FY 1983)," University of Kentucky Transportation Research Program, UKTRP-82-5, May 1982.
- 11. Pigman, J. G.; Agent, K. R.; and Creasey, T.; "Problem Identification for Highway Safety Plan (FY 1984)," University of Kentucky Transportation Research Program, UKTRP-83-19, September 1983.
- 12. Pigman, J. G.; and Agent, K. R.; "Problem Identification for Highway Safety Plan (FY 1986)," University of Kentucky Transportation Research Program, UKTRP-85-18, August 1985.

- 13. Agent, K. R. and Pigman, J. G.; "Analysis of Accident Data in Kentucky (1982-1986)", University of Kentucky Transportation Research Program, UKTRP-87-23, September 1987.
- 14. Agent, K. R.; and Pigman, J. G.; "Analysis of Accident Data in Kentucky (1983-1987), Kentucky Transportation Center, University of Kentucky, KTC-88-7, October 1988.
- 15. Agent, K. R.; and Pigman, J. G.; "Analysis of Accident Data in Kentucky (1984-1988)," Kentucky Transportation Center, University of Kentucky, KTC-89-47, October 1989.
- 16. Agent, K. R.; and Pigman, J. G.; "Analysis of Traffic Accident Data in Kentucky (1985-1989)," Kentucky Transportation Center, University of Kentucky, KTC-90-19, September 1990.
- 17. Creasey, T.; and Agent, K. R.; "Development of Accident Reduction Factors," University of Kentucky Transportation Research Program, UKTRP-85-6, March 1985.
- 18. Pigman, J. G.; and Agent, K. R.; "Impact Evaluation of Traffic Alcohol Programs: Selected Locations in Kentucky," University of Kentucky Transportation Research Program, UKTRP-84-25, September 1984.
- 19. Pigman, J. G.; Agent, K. R.; Hardyman, P. L.; Johnson, K. W.; and McCleary, R.; "Impact Evaluation of the Louisville-Shively-Jefferson County Traffic Alcohol Programs," Kentucky Transportation Center, University of Kentucky, KTC-88-3, October 1988.
- 20. Natrella, M. G.; <u>Experimental Statistics</u>, National Bureau of Standards Handbook 91, August 1963.
- 21. FHWA Technical Advisory T 7570.1, June 30, 1988.
- 22. Agent, K. R.; "1990 Safety Belt Usage Survey and Evaluation of Effectiveness in Kentucky", Kentucky Transportation Center, KTC-90-18, September 1990.

TABLE 1. Comparison of 1986, 1987, 1988, 1989 and, 1990 Accidents Rates*

STATISTIC	1986	1987	1988	1989	1986-1989 Average	1990	Percent Change***
Accidents	77,443	79,222	82,213	85,086	80,991	83,240	2.8
Mileage	24,905	24,947	27,390	27,407	26,162	27,411	4.8
Accidents Per Mile	3.11	3.18	3.00	3.10	3.10	3.04	-1.9
Vehicle Miles (Billion)	24.20	26.32	28.59	29.42	27.13	30.46	12.3
AADT	2,662	2,890	2,859	2,941	2,838	3,045	7.3
Accident Rate**	320	301	288	289	300	273	-8.8
Fatal Accident Rate**	2.43	2.47	2.10	1.92	2.23	2.07	-7.2
Injury Accident Rate**	90	89	85	86	88	83	-5.1

^{*} Data apply to streets and highways having known traffic volumes, route numbers, and mileposts.

Table 2. Statewide Rural Accident Rates By Highway
Type Classification (1986-1990)

ACCIDENTS RATES (ACCIDENTS PER 100 MVM)

	TOTAL						
HIGHWAY TYPE	MILEAGE*	AADT	ALL	INJURY	FATAL		
One-Lane	193	410	378	98	4.2		
Two-Lane	22,789	1,430	262	93	3.5		
Three-Lane	16	6,640	286	93	3.1		
Four-Lane Divided	354	8,090	161	60	1.6		
(Non-Interstate or Parkway))						
Four-Lane Undivided	48	8,150	435	128	4.1		
Interstate	577	19,830	60	18	0.8		
Parkway	530	4,850	81	22	1.5		
All	24,507	2,040	202	71	2.7		

^{*} Average for the five years.

^{**} Accidents Rates are given in terms of accidents per 100 million vehicle-miles (ACC/100 MVM).

^{***} Percent change from 1986-1989 average to 1990.

Table 3. Statewide Urban Accident Rates By Highway
Type Classification (1986-1990)

ACCIDENTS RATES

	TOTAL	(ACCIDENTS PER 100 MVM)			
HIGHWAY TYPE	TOTAL MILEAGE*	AADT	ALL	INJURY	FATAL
Two-Lane	1,203	6,550	652	168	1.9
Three-Lane	13	9,110	541	142	1.3
Four-Lane Divided (Non-Interstate or Page 1988)	320 rkway)	20,370	494	120	1.3
Four-Lane Undivided	143	17,470	943	222	1.3
Interstate	178	48,790	140	34	0.6
Parkway	40	5,750	159	45	1.2
All	1.908	13.710	467	. 116	1.2

^{*} Average for the five years.

Table 4. COMPARISON OF 1986, 1987, 1988, 1989 and 1990 ACCIDENT RATES BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION

ACCIDENTS RATES
(ACC/100 MVM)

						1986-1989		PERCENT
LOCATION	HIGHWAY TYPE	1986	1987	1988	1989	AVERAGE	1990	CHANGE*
Rural	One-Lane	606	342	285	383	404	313	-22.6
	Two-Lane	291	271	246	257	266	253	-4.9
1	Three-Lane	882	209	233	238	390	288	-26.2
	Four-Lane Divided (Non-Interstate or Parkway)	154	157	160	173	161	159	-1.0
	Four-Lane Undivided	347	490	453	470	440	478	8.7
	Interstate	53	59	61	67	60	58	-3.5
	Parkway	72	72	82	85	78	89	14.1
	All	214	207	193	203	204	196	-3.9
Urban	Two-Lane	701	678	640	637	664	611	-8.0
	Three-Lane	474	674	546	508	550	509	-7.6
	Four-Lane Divided	548	496	509	479	508	454	-10.6
	Four-Lane Undivided	831	1,011	1,036	970	962	919	-4.4
	Interstate	165	138	143	144	148	115	-21.7
	Parkway	88	155	159	213	154	204	32.4
	All	516	479	472	456	481	420	-12.6

^{**} Includes small number of one-, five-, and six-lane Highways.

^{*} Percent change from 1986-1989 to 1990

Table 5. STATEWIDE ACCIDENT RATES FOR "SPOTS" BY HIGHWAY TYPE CLASSIFICATION (1986-1990)

				=======================================	=======================================
					ACCIDENTS
RURAL			NUMBER	MILLION	PER MILLION
OR		NUMBER OF	OF	VEHICLES	VEHICLES
URBAN	HIGHWAY TYPE	ACCIDENTS	SPOTS*	PER YEAR	PER SPOT
Rural	One-Lane	540	643	0.15	1.13
	Two-Lane	155,671	75,965	0.52	0.79
	Three-Lane	554	53	2.42	0.86
	Four-Lane Divided	8,396	1,179	2.95	0.48
	(Non-Interstate or Parkw	iay)			
	Four-Lane Undivided	3,097	159	2.98	1.31
	Interstate	12,458	1,923	7.24	0.18
	Parkway	3,775	1,767	1.77	0.24
	All Rural	184,491	81,691	0.74	0.61
Urban	Two-Lane	93,764	4,010	2.39	1.96
	Three-Lane	1,212	45	3.33	1.62
	Four-Lane Divided	58,744	1,067	7.44	1.48
	Four-Lane Undivided	42,860	475	6.38	2.83
	Interstate	22,137	594	17.81	0.42
	Parkway	668	133	2.10	0.48
	All Urban**	222,783	6,361	5.00	1.40

^{*} Average for the five years. The length of a spot is defined to be 0.3 mile.

Table 6. STATEWIDE AVERAGE AND CRITICAL NUMBERS OF ACCIDENTS FOR "SPOTS"

AND ONE-MILE SECTIONS BY HIGHWAY TYPE CLASSIFICATION (1986-1990)*

RURAL	=======================================	ACCIDENT	IS PER SPOT	ACCIDENTS PER ONE-MILE SECTION	
OR			CRITICAL		CRITICAL
URBAN	HIGHWAY TYPE	AVERAGE	NUMBER	AVERAGE	NUMBER
Rural	One-Lane	0.84	4	2.80	8
	Two-Lane	2.05	6	6.83	14
	Three-Lane	10.39	19	34.63	50
	Four-Lane Divided	7.12	14	23.74	37
	(Non-Interstate or Parkway)				
	Four-Lane Undivided	19.44	31	64.79	86
	Interstate	6.48	14	21.59	34
	Parkway	2.14	6	7.12	14
	All Rural	2.26	7	7.53	15
Urban	Two-Lane	23.38	36	77.95	101
	Three-Lane	26.99	41	89.95	115
	Four-Lane Divided	55.05	75	183.49	219
	Four-Lane Undivided	90.18	115	300.59	346
	Interstate	37.27	53	124.24	153
	Parkway	5.02	11	16.73	28
	All Urban**	35.03	51	116.75	145

^{*} The length of a spot is defined to be 0.3 mile.

^{**} Includes small number of miles of one-, five-, and six-lane highways.

^{**} Includes small number of miles of one-, five-, and six-lane highways.

Table 7. ACCIDENT RATES BY COUNTY FOR STATE-MAINTAINED SYSTEM AND ALL ROADS (1986-1990)

						L ROADS	EATAL O	R INJURY
	STATE-MA	INTAINED	TOTAL ACCIDENTS		FATAL ACCIDEN	TS	ACCIDEN	
COUNTY	TOTAL ACCIDENT	ACCIDENT RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*
 Adair	1,635	305	2,436	380	16	2.50	540	84
Allen	1,009	237	2,755	524	25	4.76	741	141 97
Anderson	1,523	286	2,429	380	13	2.03	619 358	82
Ballard	856	231	1,081	248	18	4.13	356 1,748	99
Barren	3,474	230	6,752	384	46	2.62	482	78
Bath	1,100	200	1,561	254	15	2.44	1,365	113
Bell	3,057	293	5,022	416	32	2.65	3,836	108
Boone	9,957	318	16,601	469	57 20	1.61 2.48	1,042	129
Bourbon	2,365	352	4,138	513	20 29	1.56	2,514	136
Boyd	5,395	363	12,241	660	21	2.29	1,270	139
Boyle	3,176	434	5,521	603	9	3.81	224	95
Bracken	653	349	986	418	21	2.89	843	116
Breathitt	1,479	230	2,142	294	22	3.55	565	91
Breckinridge	1,233	250	1,795	289	49	2.14	1,982	86
Bullitt	4,035	208	6,361	277 315	20	3.42	528	90
Butler	1,291	255	1,847		19	2.54	602	81
Caldwell	1,467	228	2,279	305 516	35	3.53	1,458	147
Calloway	2,916	373	5,121		42	1.55	3,659	135
Campbell	9,049	415	16,544 357	612 135	5	1.89	158	60
Carlisle	295	133	2,256	304	24	3.23	618	83
Carroll	1,374	204		260	23	1.81	901	71
Carter	2,164	194	3,313 803	163	19	3.85	319	65
Casey	578	145 705	11,414	450	66	2.60	2,559	101
Christian	6,686	305 252	6,292	399	38	2.41	1,438	91
Clark	3,428	244	2,558	314	32	3.92	780	96
Clay	1,703 839	275	1,191	326	18	4.92	287	78
Clinton	867	236	1,344	310	16	3.69	394	91
Crittenden	353	139	577	191	9	2.98	136	45
Cumberland	9,481	475	20,287	772	63	2.40	4,736	180
Daviess Edmonson	833	229	1,245	287	15	3.45	367	85
Elliott	386	236	487	246	4	2.02	234	118
Estill	1,295	360	1,892	407	26	5.60	537	116
Fayette	28,385	412	63,443	756	151	1.80	11,861	141
Fleming	991	259	1,721	359	19	3.96	527	110
Floyd	4,874	290	6,733	348	54	2.79	2,343	121 104
Franklin	5,859	367	10,154	527	29	1.51	1,995	104
Fulton	716	226	1,591	429	10	2.69	376 773	48
Gallatin	812	125	1,010	145	11	1.58	332 322	64
Garrard	896	213	1,330	266	11	2.20	991	66
Grant	2,479	180	3,496	234	26	1.74	1,506	104
Graves	3,856	321	6,145	422	38	2.61 2.53	962	102
Grayson	2,249	286	3,436	363	24	2.30	377	96
Green	933		1,380	353	9	2.62	1,349	98
Greenup	2,867	258	5,029	366	36	1.18	273	81
Hancock	609		920	272	4	2.07	3,373	84
Hardin	8,838	258	16,060	401	83	2.55	1,421	95
Harlan	3,398		5,081	341	38 18	3.73	663	137
Harrison	1,603		3,025	627	18	1.61	586	45
Hart	1,302	108	1,966	151 531	21 3 2	1.48	2,713	126
Henderson	5,437		11,241	521 242	32 19	2.18	568	- 65
Henry	1,546		2,283	262 149	9	3.05	176	60
Hickman	372		439 40 475	149 450	43	1.85	2,295	99
Hopkins	5,640	283	10,475	450 255	18	4.96	281	78
Jackson	618		924	724	329	1.44	33,607	148
Jefferson	76,997	418	164,997 5,458	724 599	31	3.40	1,351	148
Jessamine	2,721	395 277	5,458 3,139	312	30	2.98	917	9
Johnson	2,003		3,139 33,041	702	74	1.57	7,152	153
Kenton	17,469	433	1,581	229	23	3.34	622	91

Table 7. ACCIDENT RATES BY COUNTY FOR STATE-MAINTAINED SYSTEM AND ALL ROADS (1986-1990) (continued)

						L ROADS	FATA: 7	O THILIDY
	STATE-MA	INTAINED	TOTAL ACCIDENTS		FATAL ACCIDEN	TS	ACCIDEN	R INJURY
COUNTY	TOTAL ACCIDENT	ACCIDENT RATE*	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*
Knox	2,297	246	4,092	378	33	3.05	1,182	109
Larue	1,112	196	1,673	250	16	2.39	440	66
Laurel	4,625	215	7,130	295	49	2.03	1,827	76
Lawrence	1,025	164	1,532	216	32	4.51	509	72 41
Lee	420	220	697	294	9	3.79	144 391	61 72
Leslie	680	142	888	163	23 33	4.23 3.25	884	87
Letcher	2,002	236 323	2,873 1,658	283 431	33 20	5.20	551	143
Lewis	976 1,745	243	2,421	288	24	2.85	704	84
Lincoln	831	175	1,081	199	8	1.47	380	70
Livingston	2,483	288	4,061	392	21	2.03	973	94
Logan Lyon	499	72	687	93	-:	0.81	207	28
McCracken	8,630	401	16,297	622	74	2.82	4,060	155
McCreary	654	152	919	179	18	3.51	308	60
McLean	872	235	1,117	248	11	2.44	367	81
Madison	7,615	304	13,748	483	78	2.74	2,780	98
Magoffin	1,081	248	1,312	260	26	5.16	565	112
Marion	1,793	429	2,917	553	23	4.36	689	131
Marshall	2,409	160	4,035	235	41	2.39	1,277	74
Martin	1,026	283	1,320	302	14	3.20	488 903	112 132
Mason	2,841	504	4,603	673	19	2.78 3.07	903 910	108
Meade	2,044	290 277	2,853 433	337 250	26 10	5.76	192	111
Menifee	325 1,973	233 322	433 3,665	489	21	2.80	973	130
Mercer Metcalfe	729	232	1,061	279	12	3.15	335	88
Monroe	672	190	1,004	233	13	3.01	297	69
Montgomery	2,459	285	4,167	412	29	2.87	1,015	100
Morgan	848	244	1,153	273	15	3.55	495	117
Muhlenberg	3,514	299	5,433	389	35	2.51	1,507	108
Nelson	3,405	3 05	5,608	422	49	3.69	1,540	116
Nicholas	340	174	548	226	13	5.35	155	64
Ohio	2,168	211	3,021	255	37	3.12	984	83 89
Oldham	3,056	258	4,702	331	27	1.90	1,262 401	128
Owen	866	346	1,183	379	11	3.52 4.52	401 177	114
Owsley	331	261 777	492	318 478	.7 .18	5.00	500	139
Pendleton	1,040 3,483	377 317	1,721 5,674	476 438	58	4.48	1,594	123
Perry Pike	7,799	336	11,932	436 424	81	2.88	3,817	135
Powell	1,150	202	1,675	263	22	3.45	546	86
Pulaski	5,519	318	8,829	419	52	2.47	2,080	99
Robertson	76	127	96	126	3	3.95	38	50
Rockcastle	1,702	128	2,301	161	24	1.68	703	49
Rowan	2,769	340	4,450	480	20	2.16	1,159	125
Russell	1,243	245	1,890	307	20	3.25	510	83
Scott	3,297	187	5,477	284	27	1.40	1,301	67
Shelby	3,639	236	5,341	309	37	2.14	1,206	70 72
Simpson	1,791	178	3,200	287	17	1.52	800 232	82 82
Spencer	473	204	648	229	10	3.53 2.14	677	91
Taylor	1,837	309 317	3,689	493 254	16 22	4.85	355	78
Todd	819	217 213	1,162	256 270	16	2.33	532	77
Trigg Taimble	1,302 593	289	1,857 771	310	14	5.63	272	109
Trimble Union	1,634	250	2,559	334	21	2.74	733	96
union Warren	9,586	286	21,917	566	82	2.12	5,130	132
warren Washington	868	191	1,314	247	18	3.39	300	57
washington Wayne	849	178	2,258	382	17	2.88	508	86
Webster	1,465	215	2,207	278	19	2.39	626	79
Whitley	3,126	144	5,367	224	59	2.46	1,524	63
Wolfe	817	153	1,109	192	19	3.30	420	73
Woodford	2,708	246	4,337	349	34	2.74	972	78

^{*} Accidents per 100 million vehicle miles (ACC/100 MVM)

Table 8. COUNTY POPULATIONS (1990 CENSUS) IN DESCENDING ORDER

COUNTY	POPULATION	COUNTY	POPULATION	COUNTY	POPULATION
	664,937	 Meade	24,170	Fleming	12,292
Fayette	225,366	Scott	23,867	Pendleton	12,036
Kenton	142,031	Johnson	23,248	Jackson	11,955
Hardin	89,240	Clay	21,746	Powell	11,686
Daviess	87,189	Taylor	21,146	Larue	11,679
Campbell	83,866	Ohio	21,105	Morgan	11,648
Narren	76,673	Grayson	21,050	Garrard	11,579
Pike	72,583	Rowan	20,353	Monroe	11,401
Christian	68,941	Lincoln	20,045	Butler	11,245
lcCracken	62,879	Woodford	19,955	Todd	10,940
Boone	57,589	Montgomery	19,561	Washington	10,441
ladison	57,508	Bourbon	19,236	Green	10,371
Boyd	51,150	Mercer	19,148	Trigg	10,361
Pulaski	49,489	Knott	17,906	Edmonson	10,357
Bullitt	47,567	Wayne	17,468	Bath	9,692
lopkins	46,126	Mason	16,666	McLean	9,628
ranklin	43,781	Union	16,557	Carroll	9,292
loyd	43,586	Marion	16,499	Crittenden	9,196
aurel	43,438	Breckinridge	16,312	Clinton	9,135
lenderson	43,044	Harrison	16,248	Livingston	9,062
ireenup	36,742	Grant	15,737	Owen	9,035
Iarlan	36,574	Breathitt	15,703	Metcal fe	8,963
larren	34,001	McCreary	15,603	Fulton	8,271
iraves	33,550	Adair	15,360	Ballard	7,902
hitley	33,326	Simpson	15,145	Hancock	7,864
ldham	33,263	Hart	14,890	Bracken	7,766
Bell	31,506	Rockcastle	14,803	Lee	7,422
luh Lenberg	31,318	Russell	14,716	Spencer	6,801
alloway	30,735	Allen	14,628	Cumberland	6,784
lessamine	30,508	Estill	14,614	Nicholas	6,725
erry	30,283	Anderson	14,571	Lyon	6,624
lelson	29,710	Casey	14,211	Wolfe	6,503
nox	29,676	Lawrence	13,998	Elliott	6,455
lark	29,496	Webster	13,955	Trimble	6,090
arshall	27,205	Leslie	13,642	Hickman	5,566
etcher	27,000	Caldwell	13,232	Gallatin	5,393
oyle	25,641	Magoffin	13,077	Carlisle	5,238
helby	24,824	Lewis	13,029	Meni fee	5,092
.ogan	24,416	Henry	12,823	Owsley	5,036
Carter	24,340	Martin	12,526	Robertson	2,124

Table 9. AVERAGE AND CRITICAL ACCIDENT RATES BY POPULATION CATEGORY (1986-1990 DATA)

=======================================	 	

	NUMBER OF		TOTAL	
	COUNTIES		MILEAGE	
POPULATION	IN	TOTAL	DRIVEN	
CATEGORY	CATEGORY	POPULATION	_(100/MVM)	
UNDER 10,000	26	187,659	97.129	
10,000 - 14,999	29	366,706	174.033	
15,000 - 24,999	28	543,414	259.429	
25,000 - 50,000	24	847,565	384.971	
OVER 50,000	13	1,739,952	653.005	
			CRITICAL	NUMBER OF
	TOTAL	ACCIDENTS	ACCIDENT	COUNTIES AT
POPULATION	NUMBER OF	PER	RATE	OR ABOVE
CATEGORY	ACCIDENTS	100 MVM	(ACC/100 MVM)	CRITICAL RATE
UNDER 10,000	23,723	244	291	9
10,000 - 14,999	47,521	273	312	8
15,000 - 24,999	90,997	351	386	9
25,000 - 50,000	149,128	387	416	11
OVER 50,000	418,522	641	662	4
POPULATION CATEGORY UNDER 10,000	TOTAL NUMBER OF FATAL ACCIDENTS 285	FATAL ACCIDENTS PER 100 MVM 2.93	CRITICAL FATAL RATE (ACC/100 MVM) 8.71	NUMBER OF COUNTIES AT OR ABOVE CRITICAL RATE O
10,000 - 14,999	552	3.17	7.78	0
15,000 - 24,999	662	2.55	5.84	0
25,000 - 50,000	958	2.49	4.91	0
OVER 50,000	1,209	1.85	3.01	0
	TOTAL NUMBER	FATAL OR	CRITICAL FATAL	NUMBER OF
	OF FATAL	INJURY	OR INJURY	COUNTIES AT
POPULATION	OR INJURY	ACCIDENTS	ACCIDENT RATE	OR ABOVE
CATEGORY	ACCIDENTS	PER 100 MVM	(ACC/100 MVM)	CRITICAL RATE
UNDER 10,000	7,368	75.9	102.5	5
10,000 - 14,999	14,182	81.5	103.1	8
15,000 - 24,999	23,641	91.1	109.5	7
25,000 - 50,000	38,911	101.1	115.7	7
OVER 50,000	89,084	136.4	146.0	4

TABLE 10. ACCIDENT RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED) (1986-1990 DATA) (ALL ROADS)

COUNTY	NUMBER OF ACCIDENTS	ACCIDENT RATE (ACCIDENTS PER 100 MVM)		NUMBER OF ACCIDENTS	ACCIDENT RATE (ACCIDENTS PER 100 MVM)
POPULATION Fulton	CATEGORY UNDER 1591	429 *	Mason	CATEGORY 15,000 4603	673 *
Bracken	986	418 *	Harrison	3025	627 *
Owen	1183	379 *	Marion	2917	553 *
Clinton	1191	326 *	Bourbon	4138	513 *
Owsley	492	318 *	Taylor	3689 3665	493 * 489 *
Crittenden Trimble	1344 771	310 * 310 *	Mercer Rowan	4450	480 *
Carroll	2256	304 *	Montgomery	4167	412 *
Lee	697	294 *	Logan	4061	392 *
Metcalfe	1061	279	Wayne	2258	382
Hancock	920	272	Adair	2436 3436	380 363
Bath Menifee	1561 433	254 250	Grayson Woodford	4337	349
Ballard	1081	248	Meade	2853	337
McLean	1117	248	Union	2559	334
Elliott	487	246	Clay	2558	314
Spencer	648	229	Johnson	3139	312
Nicholas	548	226	Shelby	5341 2142	309 294
Livingston Wolfe	1081 1109	199 192	Breathitt Breckinridge		289
Cumberland	577	192	Lincoln	2421	288
Hickman	439	149	Simpson	3200	287
Gallatin	1010	145	Scott	5477	284
Carlisle	357	135	Carter	3313	260
Robertson	96	126	Ohio	3021 3496	255 234
Lyon	687 CATEGORY 10,000	93 -14 999	Grant Knott	1581	229
Allen	2755	524 *	McCreary	919	179
Pendleton	1721	478 *	POPULATION	CATEGORY 25,000	-50,000
Lewis	1658	431 *	Boyle	5521	603 *
Estill	1892	407 *	Jessamine	5458	599 *
Anderson	2429 1721	380 * 359 *	Franklin Henderson	10154 11241	527 * 521 *
Fleming Green	1380	353 *	Calloway	5121	516 *
Butler	1847	315 *	Hopkins	10475	450 *
Russell	1890	307	Perry	5674	438 *
Caldwell	2279	305	Nelson	5608	422 *
Martin	1320	302	Graves	6145	422 * 419 *
Edmonson	1245	287	Pulaski	8829 5022	419 * 416 *
Webster Morgan	2207 1153	278 273	Bell Clark	6292	399
Trigg	1857	270	Muhlenberg	5433	389
Garrard	1330	266	Barren	6752	384
Powell	1675	263	Knox	4092	378
Henry	2283	262	Greenup	5029 6733	366 348
Magoffin Todd	1312 1162	260 256	Floyd Harlan	5081	341
Jackson	924	255 255	Oldham	4702	331
Larue	1673	250	Laurel	7130	295
Washington	1314	247	Letcher	2873	283
Monroe	1004	233	Bullitt	6361	277
Lawrence	1532	216	Marshall	4035 5367	235 224
Casey	803 888	163 163	Whitley	CATEGORY OVER 5	
Leslie Rockcastle	2301	161	Daviess	20287	772 *
Hart	1966	151	Fayette	63443	756 *
			Jefferson	164997	724 *
			Kenton	33041	702 *
			Boyd	12241 16297	660 622
			McCracken Campbell	16544	612
			Warren	21917	566
			Madison	13748	483
			Boone	16601	469
			Christian	11414	450 424
			Pike	11932 16060	424 401
			Hardin	79090	407

^{*} Critical accident rate

TABLE 11. ACCIDENT RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED) (1986-1990 DATA) (STATE-MAINTAINED SYSTEM)

	TH CRITICAL RATE		======================================		
	NUMBER OF	ACCIDENT RATE (ACCIDENTS		NUMBER OF	ACCIDENT RATE (ACCIDENTS
COUNTY	ACCIDENTS	PER 100 MVM)		ACCIDENTS	PER 100 MVM)
POPULATION	CATEGORY UNDER		POPIILATION	CATEGORY 15,000	-24.999
Bracken	653	349 *	Mason	2841	504 *
Owen	866	346 *	Harrison	1603	435 *
Trimble	593	289 *	Marion	1793	429 *
Clinton	839 331	275 *	Bourbon	2365	352 *
Owsley Crittenden	331 867	261 * 236	Rowan Mercer	2769 1973	340 * 322 *
Elliott	386	236	Taylor	1837	309 *
McLean	872	235	Adair	1635	305 *
Menifee	325	233	Meade	2044	290 *
Metcalfe	729	232	Logan	2483	288 *
Ballard Fulton	856 716	231 226	Grayson Montgomery	2249 2459	286 285
Lee	420	220	Union	1634	250
Hancock	609	219	Breckinridge	1233	250
Spencer	473	204	Breckinridge Woodford	2708	246
Carroll	1374	204	Clay	1703	244
Bath	1100	200	Lincoln	1745	243
Livingston Nicholas	831 340	175 174	Shelby Johnson	3639 2003	236 233
Wolfe	817	153	Breathitt	2003 1479	230
Hickman	372	147	Ohio	2168	211
Cumberland	353	139	Knott	1212	203
Carlisle	295	133	Carter	2164	194
Robertson	76 812	127	Scott	3297 2479	187 180
Gallatin Lyon	499	125 72	Grant Wayne	2479 849	178
POPULATION	CATEGORY 10,000		Simpson	1791	178
Pendleton	1040	377 *	McCreary	654	152
Estill	1295	360 *		CATEGORY 25,000	
Lewis	976 933	323 *	Boyle	3176 2721	434 * 395 *
Green Anderson	1523	293 * 286 *	Jessamine Calloway	2721 2916	373 *
Martin	1026	283 *	Franklin	5859	367 *
Fleming	991	259 *	Graves	3856	321 *
Butler	1291	255 *	Pulaski	5519	318 *
Magoffin	1081 1243	248 *	Perry	3483 3405	317 * 305 *
Russell Morgan	848	245 244	Nelson Muhlenberg		299 *
Allen	1009	237	Muhlenberg Henderson	5437	295
Edmonson	833	229	Bell	3057	293
Caldwell	1467	228	Floyd	4874	290
Todd Webster	819 1465	217 215	Hopkins	5640 3398	283 266
Trigg	1302	213	Harlan Oldham	3056	258
Garrard	896	213	Greenup	2867	258
Jackson	618	210	Clark	3428	252
Powell	1150	202	Knox	2297 2002	246
Henry Larue	1546 1112	201 196	Letcher Barren	2002 3474	236 230
Washington	868	191	Laurel	4625	215
Monroe	672	190	Bullitt	4035	208
Lawrence	1025	164	Marshall	2409	160
Casey	578	145	Whitley	3126	144
Leslie Rockcastle	680 1702	142		CATEGORY OVER 5	0,000 475 *
Hart	1302	128 108	Daviess Kenton	17469	455 *
		200	Jefferson	76997	418 *
	*		Campbell	9049	415 *
			Fayette	28385	412 *
			McCracken	8630 5395	401 * 363
			Boyd Pike	5395 7799	336 336
			Boone	9957	318
			Christian	6686	305
			Madison	7615	304
			Warren	9586	286 258
		·	Hardin	8838	Z30

^{*} Critical accident rate

TABLE 12. INJURY OR FATAL ACCIDENT RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED) (1986-1990 DATA)(ALL ROADS)

COUNTY	NUMBER OF ACCIDENTS	ACCIDENT RATE (ACCIDENTS PER 100 MVM)	COUNTY	NUMBER OF ACCIDENTS	ACCIDENT RATE (ACCIDENTS PER 100 MVM)
	CATEGORY UNDER	10,000 128 *	POPULATION Harrison	CATEGORY 15,000 663	-24,999 137 *
Owen Elliott	401 234	128 *	Mason	903	132 *
Owsley	177	114 *	Marion	689	131 *
Menifee	192	111 *	Mercer	973	130 *
Trimble	272	109 *	Bourbon	1042	129 *
Fulton	376	101	Rowan	1159	125 * 116 *
Bracken	224	95 91	Breathitt Meade	843 910	108
Crittenden Metcalfe	394 335	88	Grayson	962	102
Carroll	618	83	Montgomery	1015	100
Ballard	358	82	Union	733	96
Spencer	232	82	Clay	780	96
Hancock	273	81	Logan	973	94 91
McLean	367	81	Johnson	917 677	91 91
Clinton	287	78 70	Taylor	677 565	91
Bath Wolfe	482 420	78 73	Breckinridge Knott	622	90
Wolfe	380	73 70	Wayne	508	86
Livingston Nicholas	155	6 4	Adair	540	84
Lee	144	61	Lincoln	704	84
Hickman	176	60	Ohio	984	83
Carlisle	158	60	Woodford	972	78 72
Robertson	38	50	Simpson	800 901	72 71
Gallatin Cumberland	332 136	48 45	Carter Shelby	1206	70
Lyon	207	28	Scott	1301	67
POPULATION	CATEGORY 10,000		Grant	991	66
Lewis	551	143 *	McCreary	308	60
Allen	741	141 *		CATEGORY 25,000	-50,000 148 *
Pendleton	500 495	139 * 117 *	Jessamine Calloway	1351 1458	147 *
Morgan Estill	537	116 *	Boyle	1270	139 *
Martin	488	112 *	Henderson	2713	126 *
Magoffin	565	112 *	Perry	1594	123 *
Fléming	527	110 *	Floyd	2343	121 *
Anderson	619	97	Nelson	1540 1365	116 * 113
Green	377 528	96 90	Bell Knox	1182	109
Butler Powell	546	86	Muhlenberg	1507	108
Edmonson	367	85	Franklin	1995	104
Russell	510	83	Graves	1506	104
Caldwell	602	81	Barren	1748	99 99
Webster	626	79 70	Hopkins Pulaski	2295 2080	99
Jackson Todd	281 355	78 78	Greenup	1349	98
Trigg	532	70 77	Harlan	1421	95
Leslie	391	72	Clark	1438	91
Lawrence	509	72	Oldham	1262	89
Monroe	297	69	Letcher	884	87 86
Larue	440	66 65	Bullitt Laurel	1982 1827	76
Henry	568 319	65	Marshall	1277	74
Casey Garrard	322	64	Whitlev	1524	- 63
Washington	300	57	POPULATION	CATEGORY OVER 5	0,000
Rockcastle	703	49	Daviess	4736	180 *
Hart	586	45	McCracken	4060	155 * 152 *
			Kenton	7152 33607	148 *
			Jefferson Fayette	11861	141
			Boyd	2514	136
			Campbell	3659	135
			Pike	3817	135
			Warren	5130	132
			Boone	3836 2559	108 101
			Christian	∠ 337	TOT
			Madison	2780	98

^{*} Critical accident rate

TABLE 13. FATAL ACCIDENT RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1986-1990 DATA)(ALL ROADS)

COUNTY	NUMBEF ACCIDE	OF	ACCIDENT RATE (ACCIDENTS PER 100 MVM)	COUNTY	NUMBEI ACCIDI	R OF	ACCIDENT RA (ACCIDENTS PER 100 MVM
POPULATION	CATEGORY	UNDER	10,000	POPULATION		15,000	-24,999
Menifee	10		5.76	Marion	23		4.36
Trimble	14		5.63	Clay	32		3.92 3.73
Nicholas	13		5.35	Harrison Breckinridge	18 22		3.73 3.55
Clinton	18 7		4.92 4.52	McCreary	18		3.51
Owsley Ballard	18		4.13	Knott	23		3.34
Robertson	3		3.95	Ohio	37 ⁻		3.12
Bracken	9		3.81	Meade	26		3.07
Lee	9		3.79	Johnson	30		2.98
Crittenden	16		3.69	Breathitt	21		2.89
Spencer	10		3.53	Wayne	17 29		2.88 2.87
Owen	11 19		3.52 3.30	Montgomery Lincoln	24		2.85
Wolfe Carroll	24		3.23	Mercer	21		2.80
Metcalfe	12		3.15	Mason	19		2.78
Hickman			3.05	Woodford	34		2.74
Cumberland	9		2.98	Union	21		2.74
Fulton	10		2.69	Grayson	24		2.53
Bath	15		2.44	Adair	16		2.50
McLean	11		2.44	Bourbon	20		2.48
Elliott	4		2.02	Rowan	20 16		2.16 2.14
Carlisle	5		1.89	Taylor	37		2.14
Gallatin	11 8		1.58 1.47	Shelby Logan	21		2.03
Livingston Hancock	4		1.18	Carter	23		1.81
Lyon	6		0.81	Grant	26		1.74
POPULATION	CATEGORY	10,000	-14,999	Simpson	17		1.52
Estill	26	•	5.60	Scott	27		1.40
Lewis	20		5.20	POPULATION		25,000	-50,000
Magoffin	26		5.16	Perry	58 49		4.48 3.69
Pendleton	18		5.00	Nelson	35		3.53
Jackson Todd	18 22		4.96 4.85	Calloway Jessamine	31		3.40
Allen	25		4.76	Letcher	33		3.25
Lawrence	32		4.51	Knox	33		3.05
Leslie	23		4.23	Floyd	54		2.79
Fleming	19		3.96	Bell	32		2.65
Casey	19		3.85	Greenup	36		2.62 2.62
Morgan	15		3.55	Barren	46 38		2.61
Edmonson	15 22		3.45 3.45	Graves Harlan	38		2.55
Powell Butler	20		3.42	Muhlenberg	35		2.51
Washington	18		3.39	Pulaski	52		2.47
Russell	20		3.25	Whitley	59		2.46
Martin	14		3.20	Clark	38		2.41
Monroe	13		3.01	Marshall	41 21		2.39 2.29
Caldwell	19 16		2.54 2.39	Boyle	49		2.14
Larue Webster	16 19		2.39	Bullitt Laurel	49		2.03
rigg Trigg	16		2.33	Oldham	27		1.90
Green	-9		2.30	Hopkins	43		1.85
Garrard	11		2.20	Franklin	29		1.51
Henry	19		2.18	Henderson	32	_	1.48
Anderson	13		2.03	POPULATION	CATEGORY	OVER 5	0,000
Rockcastle	24		1.68	Pike	81 7 4		2.88 2.82
Hart	21		1.61	McCracken Madison	74 78		2.74
	•			Madison Christian	66		2.60
				Daviess	63		2.40
				Warren	82		2.12
				Hardin	83		2.07
				Fayette	151		1.80
				Boone	57		1.61
				Kenton	74		1.57
				Boyd	29		1.56
				Campbell	42		1.55

TABLE 14. MISCELLANEOUS ACCIDENT DATA FOR EACH COUNTY

	1	NUMBER OF	ACCIDENTS	BY YEAR		1986- 1990	1990 PERCENT	PERCENT OF ACCIDENTS INVOLVING			PERCENT PERCENT INJURY OR FATAL	ERCENT OF DRIVERS USING SAFETY	PERCENT OF ACCIDENTS INVOLVING
COUNTY	1986	1987	1988	1989	1990	AVERAGE	CHANGE*	ALCOHOL	DRUGS	ACCIDENTS	ACCIDENTS	BELTS	SPEEDING
Adair	435	465	498	506	532	476	11.8	6.0	0.2	0.66	22.2	12.0	6.0
Allen	582	539	511	591	532	556	-4.3	6.0	0.5	0.91	26.9	15.2	9.5
Anderson	440	468	492	498	531	475	11.9	6.0	0.2	0.54	25.5	23.1	10.1
Ballard	217	217	218	217	212	217	-2.4	7.3	0.1	1.67	33.1	30.7	14.4
Barren Bath	1,298 230	1,337 289	1,344	1,428	1,345	1,352	-0.5	3.7	0.3	0.68	25.9	19.7	3.8
Bell	1,017	1,013	327 1,033	379 1,034	336 925	306	9.7	6.5	0.3	0.96	30.9	16.9	14.3
Boone	3,216	3,232	3,297	3,574	3,282	1,024 3,330	-9.7 -1.4	6.4 5.3	0.6 0.2	0.64 0.34	27.2	23.7	10.0
Bourbon	789	810	804	937	798	835	-4.4	7.0	0.3	0.48	23.1 25.2	40.3 22.9	8.6
Boyd	2,308	2,302	2,424	2,614	2,593	2,412	7.5	4.1	0.2	0.24	20.5	26.8	11.6 6.2
Boyle	1,000	1,092	1,123	1,149	1,157	1,091	6.0	3.7	0.1	0.38	23.0	21.6	6.5
Bracken	181	199	192	203	211	194	8.9	6.7	0.1	0.91	22.7	16.2	10.3
Breathitt	409	432	410	450	441	425	3.7	7.0	0.3	0.98	39.4	15.1	13.1
Breckinridg		396	357	328	360	359	0.3	4.6	0.1	1.23	31.5	17.1	6.5
Bullitt	1,305	1,268	1,205	1,266	1,317	1,261	4.4	5.2	0.1	0.77	31.2	26.0	8.4
Butler	345	361	369	410	362	371	-2.5	4.0	0.3	1.08	28.6	15.4	7.4
Caldwell Calloway	427	462	453	449	488	448	9.0	7.4	0.3	0.83	26.4	16.4	8.7
Carroway Campbell	1,022 3,423	1,050 3,195	1,128 3,255	1,088 3,351	833	1,072	-22.3	4.7	0.3	0.68	28.5	15.4	8.1
Campbell	57	3,193	3,255 57	3,351 61	3,320 105	3,306 63	0.4 66.7	5.6	0.3	0.25	22.1	38.5	6.1
Carroll	426	465	422	447	496	440	12.7	8.7 8.2	0.6 0.2	1.40 1.06	44.3 27.4	19.6 24.2	15.4
Carter	483	673	673	714	770	636	21.1	7.0	0.1	0.69	27.4	12.5	12.1 14.0
Casey	83	115	143	218	244	140	74.6	11.0	0.6	2.37	39.7	15.1	18.7
Christian	2,265	2,251	2,295	2,329	2,274	2,285	-0.5	6.8	0.2	0.58	22.4	28.9	9.5
Clark	1,194	1,284	1,321	1,320	1,173	1,280	-8.3	5.8	0.3	0.60	22.9	23.8	9.4
Clay	457	517	529	524	531	507	4.8	9.4	2.7	1.25	30.5	12.2	13.9
Clinton	251	249	253	239	199	248	-19.8	5.6	0.4	1.51	24.1	8.2	4.7
Crittenden Cumberland	268 131	257 97	305	262	252	273	-7.7	4.5	0.5	1.19	29.3	8.8	5.4
Daviess	4,091	3,565	113 4,046	99 4,382	137 4,203	110 4,021	24.5	7.1	0.3	1.56	23.6	8.4	6.1
dmonson	235	262	253	232	263	246	4.5 7.1	5.0 6.2	0.3 0.2	0.31 1.20	23.3 29.5	23.2	5.1
illiott	50	85	125	107	120	92	30.8	16.0	0.4	0.82	48.0	19.6 14.4	16.9 13.6
still .	348	354	407	387	396	374	5.9	6.1	0.2	1.37	28.4	9.5	7.3
ayette	12,087	12,364	13,086	13,149	12,757	12,672	0.7	5.0	0.2	0.24	18.7	52.4	3.7
leming	305	343	363	365	345	344	0.3	5.3	0.3	1.10	30.6	13.1	7.9
loyd	1,150	1,280	1,375	1,458	1,470	1,316	11.7	7.8	0.4	0.80	34.8	26.2	15.3
ranklin	1,922	2,081	2,056	2,150	1,945	2,052	-5.2	5.6	0.2	0.29	19.6	30.9	9.4
ulton	199	359	345	349	339	313	8.3	6.5	0.4	0.63	23.6	15.5	5.0
allatin arrard	152 254	182 287	214 253	230 289	232 247	195	19.3	8.4	0.1	1.09	32.9	29.4	17.4
rant	635	625	719	829	688	271 702	-8.8	4.4	0.2	0.83	24.2	20.0	14.9
raves	1,203	1,245	1,193	1,297	1,207	1,235	-2.0 -2.2	6.1 5.7	0.1	0.74 0.62	28.3 24.5	35.7 15.9	16.7
rayson	698	638	667	685	748	672	11.3	4.5	0.1	0.70	28.0	19.1	7.5 5.2
reen	252	251	293	272	312	267	16.9	2.6	0.2	0.65	27.3	7.9	3.1
reenup	975	961	991	1,038	1,064	991	7.3	5.6	0.2	0.72	26.8	27.4	8.0
ancock	150	189	173	196	212	177	19.8	6.5	0.0	0.43	29.7	26.7	8.5
ardin	3,103	2,982	3,399	3,324	3,252	3,202	1.6	4.5	0.1	0.52	21.0	37.1	6.8
arlan	1,091	1,056	962	940	1,032	1,012	2.0	6.4	0.5	0.75	28.0	20.8	13.0
arrison	505	568	623	696	633	598	5.9	5.5	0.2	0.60	21.9	16.4	6.7
art	330	358	390	471	417	387	7.7	5.0	0.3	1.07	29.8	30.9	5.6
enderson enry	2,104 371	2,193 422	2,190 507	2,303	2,451	2,198	11.5	4.9	0.1	0.28	24.1	24.7	5.8
ickman	75	96	93	496 90	487 85	449	8.5	8.5	0.4	0.83	24.9	26.3	19.2
opkins	1,894	1,840	2,162	2,210	2,369	89 2,027	-4.0 16.9	6.4 4.0	0.7 0.1	2.05 0.41	40.1 21.9	19.7 23.3	12.5 9.0
ackson	168	209	171	193	183	185	-1.2	6.3	0.1	1.95	30.4	9.6	12.1
	33,606	32,672	34,314	32,846	31,559	33,360	-5.4	4.1	0.1	0.20	20.4	43.8	4.3
essamine	1,108	1,067	990	1,156	1,137	1,080	5.3	4.5	0.1	0.57	24.8	33.6	8.1
ohnson	619	596	624	641	659	620	6.3	5.1	0.4	0.96	29.2	20.5	8.8
enton	6,650	6,566	6,703	6,704	6,418	6,656	-3.6	5.8	0.3	0.22	21.6	36.5	5.8
nott	284	291	310	318	378	301	25.7	7.4	0.3	1.45	39.3	22.6	13.1
юж ·	853	854	837	776	772	830	-7.0	7.6	0.9	0.81	28.9	15.3	14.5

TABLE 14. MISCELLANEOUS ACCIDENT DATA FOR EACH COUNTY

Lewrence 270 310 311 354 287 311 -7.8 7.7 0.2 2.09 33.2 19.1 Lee 122 133 139 154 149 137 8.8 5.9 0.6 1.29 20.7 15.8 Leslie 189 201 158 189 151 184 -18.0 10.6 0.6 2.59 44.0 17.7 Letcher 506 523 591 572 681 548 24.3 6.8 0.4 1.15 30.8 22.0 Lewis 270 320 365 368 335 331 1.3 7.8 0.2 1.21 33.2 13.7 Lincoln 460 455 458 512 536 471 13.7 7.1 0.2 0.99 29.1 18.3 Livingston 184 239 210 222 226 214 5.7 8.2 0.4 0.74 35.2 15.3 Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 377 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 677 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mental 677 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8	
COUNTY 1986 1987 1988 1999 1990 AVERAGE CHANGE* ALCOHOL DRUGS ACCIDENTS ACCIDENTS SERE	T OF
Larue 318 302 349 333 371 326 14.0 6.1 0.1 0.96 26.3 14.4 Laurel 1,400 1,383 1,449 1,467 1,431 1,425 0.4 5.7 0.6 0.69 25.6 21.8 Lawrence 270 310 311 354 287 311 -7.8 7.7 0.2 2.09 33.2 19.1 Lee 122 133 139 154 149 137 8.8 5.9 0.6 1.29 20.7 15.8 Leslie 189 201 158 189 151 184 -18.0 10.6 0.6 2.59 44.0 17.7 Letcher 506 523 591 572 681 548 24.3 6.8 0.4 1.15 30.8 22.0 Lewis 270 320 365 368 335 331 1.3 7.8 0.2 1.21 33.2 13.7 Lincoln 460 455 458 512 536 471 13.7 7.1 0.2 0.99 29.1 18.3 Livingston 184 239 210 222 226 214 5.7 8.2 0.4 0.74 35.2 15.3 Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marchael 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.00 37.0 15.3 Meach 578 564 545 575 591 566 4.5 10.1 0.2 0.99 31.9 30.8 18.0 Marcor 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Medicalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5 15.5	VING
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Lewrence 270 310 311 354 287 311 -7.8 7.7 0.2 2.09 33.2 19.1 Lee 122 133 139 154 149 137 8.8 5.9 0.6 1.29 20.7 15.8 Leslie 189 201 158 189 151 184 -18.0 10.6 0.6 2.59 44.0 17.7 Letcher 506 523 591 572 681 548 24.3 6.8 0.4 1.15 30.8 22.0 Lewis 270 320 365 368 335 331 1.3 7.8 0.2 1.21 33.2 13.7 Lincoln 460 455 458 512 536 471 13.7 7.1 0.2 0.99 29.1 18.3 Livingston 184 239 210 222 226 214 5.7 8.2 0.4 0.74 35.2 15.3 Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 377 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mental 677 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mental 677 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Mental 678 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8	10.5
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Letcher 506 523 591 572 681 548 24.3 6.8 0.4 1.15 30.8 22.0 Lewis 270 320 365 368 335 331 1.3 7.8 0.2 1.21 33.2 13.7 Lincoln 460 455 458 512 536 471 13.7 7.1 0.2 0.99 29.1 18.3 Livingston 184 239 210 222 226 214 5.7 8.2 0.4 0.74 35.2 15.3 Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Maccer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	10.5
Lewis 270 320 365 368 335 331 1.3 7.8 0.2 1.21 33.2 13.7 Lincoln 460 455 458 512 536 471 13.7 7.1 0.2 0.99 29.1 18.3 Livingston 184 239 210 222 226 214 5.7 8.2 0.4 0.74 35.2 15.3 Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Mencer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	27.4
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Logan 818 759 827 853 804 814 -1.3 4.9 0.2 0.52 24.0 18.1 Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	13.1
Lyon 91 137 150 106 203 121 67.8 6.6 0.3 0.87 30.1 32.3 McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	8.9
McCracken 3,185 3,235 3,303 3,302 3,272 3,256 0.5 6.3 0.4 0.45 24.9 26.6 McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 17.3 McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 Marshall 745 800 795 833 862 793 8.7 5	5.6
McCreary 156 171 161 162 269 163 65.5 10.3 0.2 1.96 33.5 17.3 17	16.6
McLean 228 225 207 209 248 217 14.2 6.6 0.0 0.98 32.9 22.2 Madison 2,463 2,663 2,827 3,089 2,706 2,761 -2.0 6.8 0.2 0.57 20.2 31.2 Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 12 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 14 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 1 Meade 578 564 545 575 591 566 4.5<	4.7
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Magoffin 233 253 272 269 285 257 11.0 10.7 0.4 1.98 43.1 24.5 1 Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9 1 Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 1 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 11 Menifee 67 85 84 88 109 81 34.	12.9 11.6
Marion 632 577 592 538 578 585 -1.2 8.8 0.2 0.79 23.6 14.9<	11.0 19.6
Marshall 745 800 795 833 862 793 8.7 5.4 0.1 1.02 31.6 20.0 Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 1 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 11 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 15 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5 13	10.2
Martin 182 196 222 352 368 238 54.6 4.4 0.5 1.06 37.0 15.3 1 Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 11 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 15 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5 33	9.0
Mason 806 877 927 1,044 949 914 3.9 5.3 0.2 0.41 19.6 21.3 Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 10.8 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 15.3 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	16.4
Meade 578 564 545 575 591 566 4.5 10.1 0.2 0.91 31.9 30.8 1 Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 1 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5 13	4.3
Menifee 67 85 84 88 109 81 34.6 9.2 0.0 2.31 44.3 15.3 15 Mercer 722 717 722 762 742 731 1.5 6.3 0.6 0.57 26.5 18.5 Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5 15	10.5
Metcalfe 177 166 240 253 225 209 7.7 3.4 0.1 1.13 31.6 15.5	15.9
	9.7
	12.1
Monroe 165 204 211 205 219 196 11.6 5.3 0.1 1.29 29.6 7.9	8.9
Montgomery 826 786 829 883 843 831 1.4 5.5 0.2 0.70 24.4 11.3	4.6
	15.0
	11.6
·	7.8
	9.7
	9.5
	10.9
	15.9
	7.6
Perry 1,112 1,055 1,101 1,212 1,194 1,120 6.6 6.0 0.3 1.02 28.1 18.6	8.3
Pike 2,258 2,165 2,279 2,579 2,651 2,320 14.3 6.1 0.3 0.68 32.0 23.0 1	14.6
	12.8
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	21.9
	17.0
	11.6
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	4.9
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	7.0
	6.8
	3.5
	9.2
	7.2
	9.4
Wayne 400 438 431 441 548 428 28.2 5.8 0.0 0.75 22.5 9.6	9.5
	6.4
	4.6
	3.5
Woodford 807 888 828 893 921 854 7.8 6.5 0.3 0.78 22.4 32.8 1	

TABLE 15. ACCIDENT RATES FOR INCORPORATED CITIES HAVING POPULATION OVER 2,500 (FOR STATE-MAINTAINED SYSTEM AND ALL ROADS FOR 1986-1990 DATA)

		STATE MAINTA	INED SYSTEM	ALI	L ROADS ACCIDENT
CITY	POPULATION	TOTAL ACCIDENTS	ACCIDENT RATE*	ACCIDENTS	RATE**
Louisville	269,063	38,060	437	91,091	67.7
Lexington	225,366	15,256	893	62,783	55.7
Owensboro	53,549	15,256 3,445 7,867	1,045	15,177	56.7
Covington	43,264	7,867	651	15,050	69.6
Bowling Green	40,641	4,811	776	17,135	84.3 52.8
Bowling Green Hopkinsville	29,809	2,987	696	7,869	86.5
Paducah	27,256	3,579	674	11,789	56.3
Frankfort	25,968	2,629	510	7,312 8,389	64.7
Henderson	25,945	1,206	711	8,181	69.3
Ashland	23,622	2,514	726	4,679	40.3
Jeffersontown	23,221	370	978	7,630	72.1
Richmond	21,155	1,623	1,186	4,252	43.0
Radcliff	19,772	1,422	546	5,609	59.4
Newport	18,871	3,973	707	9,592	103.0
Florence	18,624	2,459	1,108	7,252	79.8
Elizabethtown	18,167	2,646	549	6,249	77.1
Madisonville	16,200	1,241	737		20.6
Fort Thomas	16,032	248	160	1,653	
Erlanger	15 , 979	1,549	1,210	4,196	52.5
Saint Matthews	15,800	573	884	5,886	74.5
Winchester	15,799	1,370	548	4,057	51.4
Shively	15,535	1,234	901	5,588	71.9
Murray	14,439	1,314	842	3,593	49.8
Nicholasville	13,603	464	395	2,752	40.5
Danville	12,420	1,130	824	3,979	64.1
Glasgow	12,351	1,170	467	4,052	65.6
Glasgow Georgetown	11,414	883	1,052	2,968	52.0
Middlesboro	11,328	1,221	578	2,701	47.7
Somerset	10,733	1,673	779	4,739	88.3
Independence	10,444	148	340	1,769	33.9
Mayfield	9,935	1,016	1,119	3,543	71.3 58.3
Campbellsville	9,577	639	744	2,791	38.9
Berea	9,126	750	683	1,777	
Paris	8,730	1,037	570	2,449	56.1
Morehead	8,357	768	1,325	2,543	60.9 28.7
Edgewood	8,143	***	***	1,167	1.8
Lyndon	8,037	***	***	72 1,052	27.0
Flatwoods	7,799	.38	220	387	10.0
Villa Hills	7,739	***	***	1,970	51.8
Franklin	7,607	589	749	2,325	62.4
Russellville	7,454	891	494	1,396	37.5
Fort Mitchell	7,438	31	673	2,969	80.0
Corbin	7,419	1,025	723	2,259	61.6
Harrodsburg	7,335	969	863	2,264	62.3
Versailles	7,269	1,075	847	3,183	88.8
Maysville	7,169	1,379	1,154	1,165	33.3
Bellevue	6,997	14	50	1,442	41.6
Princeton	6,940	674	508 ***	1,025	29.9
Elsmere	6,847	***		2,831	83.3
Bardstown	6,801	914	978 ***	811	24.7
Dayton	6,576	***		1,995	60.7
Fort Wright	6,570	36	828	1,684	51.8
Cynthiana	6,497	396	1,057	2,229	70.5
Pikeville	6,324	643	385	2,334	74.8
Shelbyville	6,238	888	1,216	1,231	41.7
Lawrenceburg	5,911	514	1,020	3,033	105.4
London	5,757	907	670	1,809	63.5
Lebanon	5,695	728	944	1,161	41.5
Alexandria	5,592	293	882 ***	799	28.9
Taylor Mill	5,530	***		1,303	47.4
Williamsburg	5,493	308	216	2,291	84.6
Hazard	5,416	484	363	2,291	86.1
Mount Sterling	5,362	505	637	1,752	65.4
Monticello	5,357	348	294	1,104	00.4

TABLE 15. ACCIDENT RATES FOR INCORPORATED CITIES HAVING POPULATION OVER 2,500 (FOR STATE-MAINTAINED SYSTEM AND ALL ROADS FOR 1986-1990 DATA) (continued)

		STATE MAINTA	INED SYSTEM	ALI	L ROADS
		TOTAL	ACCIDENT	TOTAL	ACCIDENT
CITY	POPULATION	ACCIDENTS	INED SYSTEM ACCIDENT RATE* 669 *** 806 963 607 444 535 486 587 905 989 786 601 467 867 1,519 936 *** 967 1,321 449 170 257 170 499 *257 170 499 *257 170 499 *257 170 499 *257 170 499 *257 1,075 249 326 1,264 *** 914 577 1,075 249 326 1,264 *** 914 577 1,075 249 326 1,264 *** 914 577 1,075 249 326 1,264 *** 914 577 1,075 249 326 195 380 378 530 *** 9169	ACCIDENTS	RATE*
Mount Washington	5,226	156	669	740	28.3
Middletown	5,016	***	***	196	7.8
Central City	4,979	582	806	1,518	61.0
Leitchfield	4,965	732	963	1,772	71.4
Shenherdsville	4.805	321	607	1,785	74.3
Ludlow	4.736	14	444	609	25.
Greenville	4.689	396	535	1,039	44.
Daintaville	4.354	321	486	1,818	83.
Coottowille	4,334	377	587	1.597	74.
Michland Moichto	, <u>4,2</u> 73	518	481	1.436	68.
Highland Heights	1 215	61	895	180	8.
WIIMOTE	4,213	172	570	710	34.
Providence	4,123	1/2	305	1.659	82.
Knasett	4,014	636	750	1 264	64.
Benton	3,899	030	/30 607	1 160	60
Lagrange	3,853	227	007	1,100	75
Columbia	3,845	490	905	1,450	/5.
Morganfield	3,776	350	989	1 012	43.
Carrollton	3,715	217	786	1,012	54.
Barbourville	3,658	423	601	1,031	20.4
Vine Grove	3,586	222	467	386	21.
Prestonsburg	3,558	649	867	1,905	107.
Gravson	3,510	320	1,519	1,029	58.
Lancaster	3,421	327	936	723	42.
Park Hills	3,321	***	***	386	23.
Marion	3,320	358	967	798	48.
Southgate	3,266	54	46	494	30.
Lakeside Park	3,131	576	1,321	471	30.
Dawson Springs	3.129	192	449	497	31.
Cumberland	3,112	50	170	528	33.
Eul+on	3,078	184	257	889	57.
Flemingsburg	3,071	65	170	692	45.
Williamstown	3 023	127	499	587	38.
WIIIIamscown	2 911	***	***	21	1.
Beares Dam	2,011	152	626	792	54.
Dedver Dam	2,304	947	1.264	1,321	91.
Cold Spring	2,000	256	642	750	52.
Springileid	2,073	230	***	984	68.
Oak Grove	2,003	204	01/	720	50.
TombringArire	2,001	204	577	859	60.
Irvine	2,830	293	1 075	607	43.
Stanton	2,795	192	1,075	293	21.
Jenkins	2,751	120	247	677	49.
Hodgenville	2,721	180	320 105	322	23.
Hickman	2,689	33	300 T20	769	57
Stanford	2,686	231	38U	1 400	104
Harlan	2,686	420	3/8 530	1,403	704.
Mount Vernon	2,654	166	530	700 750	20.
Crestview Hills	2,546	***	***	753	5 3. (
Hartford	2,532	23	79	370	20 1
Calvert City	2,531	51	169	3/0	47.

^{*} Accidents per 100 million vehicle miles. ** Accidents per 1,000 population. *** No data available.

TABLE 16. MISCELLANEOUS ACCIDENT DATA FOR INCORPORATED CITYIES HAVING POPULATION OVER 2,500 (1986-1990 DATA FOR ALL ROADS)

Color Colo		::::::::::::::::::::::::::::::::::::	FATAL ACCID		PEDESTRIAN MOTOR VEHI ACCIDENTS	-	BICYCLE-RI MOTOR VEHI ACCIDENTS	ELATED	MOTORCYCLE ACCIDENTS		PERCENT OF ACCIDENTS	PERCENT OF ACCIDENTS
EXELUTION 229,366	CITY	POPULATION	NUMBER	RATE *	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE*	INVOLVING SPEEDING	INVOLVING
OMERBEROR 5),549 11,041 12,102 397 11,104 11,105	LOUISVILLE	269,063	134	1.00	1,540	11.4	881	6.5	698.0	5.2	3.30	3.8
EOVINTONO 4 4, 264 22 1.02 397 18.4 176 8.1 133.0 6.1 4.20 6.5 3.70 4. 80 MILES EMPLIES 49,641 12 0.59 164 8.1 103 5.1 132.0 6.5 3.70 4. 80 MILES EMPLIES 29,809 111 0.74 82 5.5 71 4.8 65.0 4.6 6.5 3.70 4. 80 MILES EMPLIES 29,809 110 0.77 89 6.5 7.0 89 6.5 133.0 10.5 3.40 5.5 FARMERICRY 25,848 10 0.77 89 6.5 7.0 89 6.5 143.0 10.5 3.40 5.5 FARMERICRY 25,848 10 0.77 89 6.5 7.0 89 6.5 143.0 10.5 3.40 6.6 A. MILES EMPLIES E		-										5.1
BOMESTING GREEN 40,441 12 0.59 144 8.1 103 5.1 132,0 6.5 3.70 4.6 6.60 5.5												4.4
ROPELINGYLLER 29, 109		•										6.0
PADUCAN 27,256 30 2.20 95 7.0 89 6.5 141,0 10.5 3.40 5.7 5.8												4.2
PARMETRORY 25,968 10 0.77 69 6.9 27 2.1 41.0 3.2 5.10 4.												5.0
REMERSION 23,425 5 0.39 100 7,7 33 7,2 66.0 6.6 3.00 4.8												
ASSERDIAD 33,622 5 0.42 97 8.2 49 4.1 67.0 5.7 4.20 3.5 ASTEPRESONTON 23,221 3 0.26 33 2.8 34 2.9 32.0 2.8 4.50 2.8 4.50 5.7 RICHORDON 21,155 11 1.04 79 7.5 32 3.0 38.0 3.6 4.80 5.7 REMOCITY 19,772 13 1.31 24 2.4 2.7 2.7 65.0 6.6 2.60 4.80 5.7 REMOCITY 19,772 13 1.31 24 2.4 2.7 2.7 65.0 6.6 2.60 4.80 5.7 REMOCITY 19,871 2.8 2.10 2.26 67 7.2 2.6 2.8 55.0 6.5 2.60 4.5 5.50 6.5 RICHARDETHYOMS 18,167 24 2.46 34 3.7 30 3.3 44.0 4.8 3.00 2.5 RICHARDETHYOMS 16,032 1 0.12 23 2.9 2.9 3.6 3.0 1.1 7.00 4.8 RILAMBER 15,979 9 1.13 47 5.9 31 3.9 52.0 6.5 4.70 3.1 SAITY MATHEMS 15,800 5 0.63 51 6.5 37 4.7 24.0 3.3 1.80 1.8 RICHARDET 15,535 10 1.29 79 10.2 48 5.8 6.0 4.0 2.7 2.50 4.8 RICHARDET 14,430 2 0.28 36 5.0 2.7 3.7 3.0 4.2 4.60 2.3 4.0 RICHARDET 13,633 4 0.55 13 1.7 4.7 2.1 2.7 2.7 4.6 3.50 3.0 RICHARDET 13,633 4 0.55 13 1.7 4.7 2.1 2.7 2.7 4.6 3.50 3.0 RICHARDET 13,643 4 0.55 13 1.7 4.7 2.7 2.7 2.7 4.6 3.50 3.0 RICHARDET 13,643 4 0.55 13 1.7 4.7 4.7 2.0 4.0 3.50 3.0 RICHARDET 13,643 4 0.55 13 1.7 4.7 4.7 2.7 4.7 4.0 3.50 3.0 RICHARDET 13,643 4 0.55 13 1.7 4.7 4.7 2.7 2.7 4.		•										4.0
SEPTEMBONYCOM												3.4
RICHENORD 21,155 11 1.04 79 7.5 32 3,0 38.0 3.6 4.80 5.6 6.6 2.60 4. REMORNT 10,971 10,971 10,971 10,971 10,971 10,972 10 0.64 169 17.9 64 6.8 22.0 4.5 5.50 6.6 2.60 4. REMORNT 10,972 10,												2.3
RADELLIFF 19,772 13, 13, 13, 12, 24, 27, 27, 65, 0 6, 6 2,60 4,5 FLORENCE 18,624 21, 22,6 67, 7,2 26, 2,8 FLORENCE 18,624 21, 2,64 67, 7,2 26, 2,8 55, 0 5,9 4,90 3,0 4,0 RADISONVILLE 16,200 7 0,86 47, 5,8 5,8 6, 6,9 26,0 3,2 4,0 4,0 7,0 8,1 8,1 8,1 8,1 8,1 8,1 8,1 8												5.3
INTRODENCE		-										4.4
ELICABEPITION 18,167 24 2.26 67 7.2 26 2.8 55.0 5.9 4.90 3.0 2.0		-										6.2
ELIZABETPETONN 18,167 24 2.64 34 3.7 30 3.3 44.0 4.8 3.00 2.7 (A. BADISONVILLE 16,200 7 0.86 47 5.8 56 6.9 26.0 3.2 4.40 2.7 (A. BADISONVILLE 16,200 7 0.86 47 5.8 56 6.9 26.0 3.2 4.40 2.7 (A. BADISONVILLE 16,200 7 0.86 47 5.8 56 6.9 25.0 6.5 1.1 7.80 4.2 (A. BADISONVILLE 15,939 9 1.13 47 5.9 31 3.9 52.0 6.5 4.70 3.3 1.80 (A. BADISONVILLE 15,939 7 0.89 57 7.2 27 3.4 42.0 2.7 2.50 4.8 SILVELY 15,535 10 1.29 79 10.2 45 5.8 49.0 6.2 3.3 1.80 (A. BADISONVILLE 15,535 10 1.29 79 10.2 45 5.8 49.0 6.2 3.80 (A. BADISONVILLE 13,603 4 0.59 13 1.9 14 2.1 27.0 4.0 3.50 (A. BADISONVILLE 13,603 4 0.59 13 1.9 14 2.1 27.0 4.0 3.50 (A. BADISONVILLE 13,603 14 0.59 13 1.9 14 2.1 27.0 4.0 3.50 (A. BADISONVILLE 14,449 1 0.16 44 7.1 17 2.7 2.10 3.4 3.10 (A. BADISONVILLE 14,449 1 0.16 44 7.1 17 2.7 2.10 3.4 4.3 1.0 2.0 (A. BADISONVILLE 14,449 1 0.16 44 7.1 17 2.7 2.1 0.3 4.0 3.50 (A. BADISONVILLE 14,449 1 0.16 44 7.1 17 2.7 2.1 0.3 4.0 3.50 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 3 0.53 20 3.5 19 3.3 21.0 3.7 4.3 3.0 (A. BADISONVILLE 14,440 1 1.44 5 0.4 4.2 2.0 (A. BADISONVILLE 14,440 1 1.4 4 2.1 (A. BADIS												3.5
MADISONYILLE												2.6
ERLANGER 15,979 9 1.13 47 5.9 31 3.9 52.0 6.5 4.70 1.3 SAINY MATTHEWS 15,800 5 0.63 51 6.5 37 4.7 6.0 3.3 1.80 1.7 MINCHESTER 15,799 7 0.89 57 7.2 27 3.4 21.0 2.7 2.50 4. KINCHICLESTER 15,799 7 0.89 57 7.2 27 3.4 21.0 2.7 2.50 4. KINCHICLESTER 14,439 2 0.28 36 5.0 27 3.7 30.0 4.2 4.60 3.50 3. MURRAY 14,439 2 0.28 36 5.0 27 3.7 30.0 4.2 4.60 3.50 3. MURRAY 14,439 1 0.016 44 7.1 17 2.7 21.0 3.4 3.10 2.2 CALBROWN 12,351 7 1.13 29 4.7 8 1.3 4.2 0.68 2.0 3.4 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.5 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.5 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 8.8 2.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 9 5.1 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 5.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 5.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 5.0 3.7 CALBROWN 11,328 10 1.77 45 7.9 24 4.2 2.0 5.0 3.7 CALBROWN 12,351 7 1.0 2.0 3.2 6.4 30 6.0 2.9 0 5.8 2.1 CALBROWN 12,351 7 1 0.24 2.7 9 1.7 CALBROWN 12,351 7 1 0.24 2.7 9 1.7 CALBROWN 12,351 7 1 0.24 2.7 9 1.7 CALBROWN 13,357 1 0.24 2.7 6.5 12 2.9 14.0 3.5 CALBROWN 18,357 1 0.24 2.7 6.5 12 2.9 14.0 3.5 CALBROWN 18,357 1 0.24 2.7 6.5 12 2.9 14.0 3.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MADISONVILLE		7									2.2
SALTH MATTHEWS	FORT THOMAS		1	0.12			29	3.6	9.0	1.1	7.80	4.8
NEWSCHESTER 15,799 70 0.89 77 70 70 70 70 70 70 70 70 7	ERLANGER	15,979	9	1.13	47	5.9	31	3.9	52.0	6.5	4.70	3.7
SHIPLITY	SAINT MATTHEWS	15,800	5	0.63	51	6.5	37	4.7	26.0	3.3	1.80	1.8
NURRY 14,439 2 0.28 3.6 5.0 27 3.7 30.0 4.2 4.60 2.2 NICHOLASVILLE 13,603 4 0.55 13 1.9 14 2.1 27.0 4.0 3.55 3.5 DANYILLE 12,420 1 0.16 44 7.1 17 2.7 21.0 3.4 3.10 2.2 GRORGETOWN 12,351 7 1.13 29 4.7 8 1.3 3.3 21.0 3.7 4.50 2.2 GRORGETOWN 11,414 3 0.55 20 3.5 19 3.3 21.0 3.7 4.50 2.2 HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. SORREGET 10,733 7 1.30 42 7.8 10 1.9 1.0 1.2 2.9 6.3 HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. HIDDLESSORO 11,328 10 1.77 4.5 7.9 24 4.2 25.0 5.1 4.50 4. HIDDLESSORO 11,328 10 1.77 4.5 7.9 1.7 15.0 2.9 6.30 6. HAYFIELD 9,355 2 0.40 32 6.4 30 6.0 25.0 5.8 2.10 2.2 HAYFIELD 9,355 2 0.40 32 6.4 30 6.0 25.0 5.8 2.10 2.2 CAMPBELSYILLE 9,577 3 0.63 10 2.1 13 2.7 24.0 5.0 3.10 3.1 BREREA 9,126 5 1.10 19 4.2 16 3.5 11.0 2.4 3.6 4.7 HAYFIELD 8,357 1 0.24 27 6.5 12 2.9 1.0 3.4 3.7 HAYFIELD 8,357 1 0.24 27 6.5 12 2.9 6.0 15.0 4.70 5. HOREHEAD 8,357 1 0.24 27 6.5 12 2.9 14.0 3.4 3.7 HOREHEAD 8,357 1 0.24 27 6.5 12 2.9 1.0 3.4 3.7 HOREHEAD 8,357 0 0.00 17 4.2 9 2.2 6.0 1.5 3.4 HOREHEAD 8,377 0 0.00 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	WINCHESTER	15,799	7	0.89	57	7.2	27	3.4	21.0	2.7	2.50	4.1
NICHOLASVILLE 13,603 4 0.59 13 1.9 14 2.1 27.0 4.0 3.50 3.50 3.50 ANVILLE 12,420 1 0.16 44 7.1 17 2.7 21.0 3.4 3.10 2.2 ANVILLE 12,420 1 0.16 44 7.1 17 2.7 21.0 3.4 3.10 2.2 ANVILLE 12,420 1 0.1.7 1.13 29 4.7 8 1.3 42.0 6.8 2.00 3.7 4.30 2.2 ANVILLE 12,420 1 0.1.77 45 7.9 24 4.2 29.0 5.1 4.50 4.4 ANVILLEMBRY 11,414 3 0.53 20 3.5 19 3.3 21.0 3.7 4.30 2.2 ANVILLE 12,420 1 0.1.77 45 7.9 24 4.2 29.0 5.1 4.50 4.4 ANVILLEMBRY 11,414 5 0.96 14 2.7 9 1.7 15.0 3.2 3.90 2.2 ANVILLE 12,577 3 0.63 10 2.1 13 2.7 24.0 5.0 3.2 3.90 2.2 ANVILLE 13,577 3 0.63 10 2.1 13 2.7 24.0 5.0 3.10 2.9 6.30 6.0 ANVILLE 13,577 3 0.63 10 2.1 13 2.7 24.0 5.0 3.10 3.10 3.5 BEREA 9,126 5 1.10 19 4.2 16 3.5 11.0 2.4 3.60 4.7 ANVILLE 14,570 4.4 3.0 4.2 2.0 5.0 4.70 5.0 ANVILLE 14,570 4.4 3.0 ANVILLE 14,570	SHIVELY	15,535			79	10.2	45	5.8	48.0		3.60	3.7
DANYLILE 12,420 1 0.16 44 7.1 17 2.7 21.0 3.4 3.10 22.0 CALASGOW 12,351 7 1.13 29 4.7 8 1.3 42.0 6.8 2.00 3. GEORGETOWN 11,414 3 0.53 20 3.5 19 3.3 21.0 3.7 4.30 22. MIDDLESSORO 11,328 10 1.77 45 7.9 24 4.2 29.0 5.1 4.50 44. SOURRESET 10,733 7 1.30 42 7.8 10 1.9 17.0 3.2 3.90 2. INDEFENDENCE 10,444 5 0.96 14 2.7 9 1.7 15.0 2.9 6.30 6. MAYFIELD 9,935 2 0.40 32 6.4 30 6.0 29.0 5.8 2.10 2. CAMPBELLSVILLE 9,577 3 0.63 10 2.1 13 2.7 24.0 5.0 3.10 3.1 EXERCISE 10,733 7 1.00 19 4.2 16 3.5 11.0 2.4 3.60 4. PARIS 9,730 1 0.23 23 5.3 19 4.2 2.0 5.0 3.10 3.1 4.2 A. PARIS 9,730 1 0.23 23 5.3 19 4.2 2.9 6.0 1.5 3.4 3.0 4.7 A. PARIS 9,730 1 0.23 23 5.3 19 4.4 22.0 5.0 4.70 5.8 EXERGED 10,444 13 0.0.0 17 4.2 9 2.2 6.0 1.5 3.40 3.1 LYNDON 8,037 0 0.00 17 4.2 9 2.2 6.0 1.5 3.40 3.1 LYNDON 8,037 0 0.00 17 4.2 9 2.2 6.0 1.5 3.40 3.1 LYNDON 8,037 0 0.00 17 4.2 9 2.2 6.0 1.5 3.40 3.1 LYNDON 8,037 0 0.00 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		-										2.4
CLASCOW												3.4
BEDREAN 11,414 3												2.3
NOTICE SEGRO												3.1
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FRANKLIN 7,607 2 0.53 16 4.2 15 3.9 16.0 4.2 2.70 2. RUSSELLVILLE 7,454 2 0.54 24 6.4 8 2.1 20.0 5.4 3.00 5. FORT MITCHELL 7,438 4 1.08 17 4.6 5 1.3 11.0 3.0 5.10 6. CORBIN 7,419 10 2.70 31 8.4 16 4.3 14.0 3.8 5.10 3. HARRODSBURG 7,335 2 0.55 26 7.1 8 2.2 25.0 6.8 3.20 3. VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,997 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. PRINCETON 6,940 5 1.44 13 3.7 8 2.3 9.0 2.6 4.60 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,801 5 1.47 31 9.1 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIKEVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. PIKEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEWRANDERIA 5,592 1 0.36 4 1.4 1 0.4 5.0 1.8 10.4 3.70 2. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.	FLATWOODS	7,799	3	0.77	17	4.4	3	0.8	9.0	2.3	3.10	3.3
RUSSELVILLE 7,454 2 0.54 24 6.4 8 2.1 20.0 5.4 3.00 5. FORT MITCHELL 7,438 4 1.08 17 4.6 5 1.3 11.0 3.0 5.10 6. CORBIN 7,419 10 2.70 31 8.4 16 4.3 14.0 3.8 5.10 3. HARRODSBURG 7,335 2 0.55 26 7.1 8 2.2 25.0 6.8 3.20 3. VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,997 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 4.60 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,576 2 0.61 22 6.7 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIREVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. PIREVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. FLAMPENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBARON 5,592 1 0.36 4 1.4 1.4 1 0.4 5.0 1.8 10.4 3.70 2. TAYLOR MILLI 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.4 3.70 2. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.	VILLA HILLS	7,739	0	0.00	1	0.3	4	1.0	3.0	0.8	10.90	8.5
FORT MITCHELL 7,438 4 1.08 17 4.6 5 1.3 11.0 3.0 5.10 6. CORBIN 7,419 10 2.70 31 8.4 16 4.3 14.0 3.8 5.10 3. HARRODSBURG 7,335 2 0.55 26 7.1 8 2.2 25.0 6.8 3.20 3. VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,97 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. PRINCETON 6,940 5 1.44 13 3.7 8 2.3 9.0 2.6 4.60 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,576 2 0.61 22 6.7 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIKELEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELEVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,575 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LERRON 5,592 1 0.36 4 1.4 1.4 1 0.4 5.0 1.7 5.20 4. LERRON 5,592 1 0.36 4 1.4 1.4 1 0.4 5.0 1.8 14.0 4.5 5.50 5. TAYLOR WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.	FRANKLIN	7,607	2	0.53	16	4.2	15	3.9	16.0	4.2	2.70	2.9
CORBIN 7,419 10 2.70 31 8.4 16 4.3 14.0 3.8 5.10 3. HARRODSBURG 7,335 2 0.55 26 7.1 8 2.2 25.0 6.8 3.20 3. VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,997 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. PRINCETON 6,940 5 1.44 13 3.7 8 2.3 9.0 2.6 4.60 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,801 5 1.47 31 9.1 14 4.1 16.0 4.7 2.9 7.10 6. DAYTON 6,576 2 0.61 12 2 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNCHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIKEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBRON 5,595 1 0.36 4.14 1.4 1 0.4 5.0 3.7 5.5 5.4 1.40 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. TAYLOR MILL 5,530 6 2.17 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3.	RUSSELLVILLE	7,454	2	0.54	24	6.4	8	2.1	20.0	5.4	3.00	5.0
HARRODSBURG 7,335 2 0.55 26 7.1 8 2.2 25.0 6.8 3.20 3. VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,997 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. BELLEVUE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,801 5 1.44 13 3.7 8 2.3 9.0 2.6 4.60 6. BARDSTOWN 6,801 5 1.47 31 9.1 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIKEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. ALEXANDRIA 5,592 1 0.36 4 1.4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.	FORT MITCHELL	7,438	4	1.08	17	4.6	5	1.3	11.0	3.0	5.10	6.3
VERSAILLES 7,269 3 0.83 20 5.5 7 1.9 7.0 1.9 4.80 3. MAYSVILLE 7,169 2 0.56 41 11.4 12 3.3 17.0 4.7 1.70 3. BELLEVUE 6,997 1 0.29 29 8.3 22 6.3 10.0 2.9 4.50 6. PRINCETON 6,940 5 1.44 13 3.7 8 2.3 9.0 2.6 4.60 6. ELSMERE 6,847 0 0.00 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,801 5 1.47 31 9.1 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. PIKEVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 1.7 5.20 4. LEBANON 5,592 1 0.36 4 1.4 12 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.						8.4	16					3.4
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ELSMERE 6,847 0 0.000 16 4.7 27 7.9 10.0 2.9 7.10 6. BARDSTOWN 6,801 5 1.47 31 9.1 14 4.1 16.0 4.7 2.90 3. DAYTON 6,576 2 0.61 22 6.7 14 4.3 10.0 3.0 3.90 4. FORT WRIGHT 6,570 2 0.61 16 4.9 6 1.8 17.0 5.2 6.90 7. CYNTHIANA 6,497 4 1.23 26 8.0 8 2.5 12.0 3.7 3.80 3. FIKEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5. SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.0 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 13.0 4.7 7.20 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.												6.3
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PIKEVILLE 6,324 2 0.63 18 5.7 7 2.2 11.0 3.5 5.40 5.8 SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46												3.0
SHELBYVILLE 6,238 6 1.92 20 6.4 15 4.8 14.0 4.5 3.30 3. LAWRENCEBURG 5,911 6 2.03 29 9.8 11 3.7 5.0 1.7 5.20 4. LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.												5.1
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LONDON 5,757 6 2.08 24 8.3 9 3.1 22.0 7.6 4.40 2. LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.												4.4
LEBANON 5,695 6 2.11 21 7.4 13 4.6 14.0 4.9 5.50 5. ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.												2.7
ALEXANDRIA 5,592 1 0.36 4 1.4 2 0.7 4.0 1.4 3.70 2. TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.		-										5.6
TAYLOR MILL 5,530 6 2.17 4 1.4 1 0.4 5.0 1.8 10.40 3. WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.		-										2.1
WILLIAMSBURG 5,493 4 1.46 20 7.3 5 1.8 13.0 4.7 7.20 3.												3.9
			4									3.5
HAZARD 5,416 12 4.43 16 5.9 4 1.5 12.0 4.4 1.70 3.	HAZARD	5,416	12	4.43	16	5.9	4	1.5	12.0	4.4	1.70	3.4

TABLE 16. MISCELLANEOUS ACCIDENT DATA FOR INCORPORATED CITYIES HAVING POPULATION OVER 2,500 (1986-1990 DATA FOR ALL ROADS)(continued)

		FATAL ACCID	ents	MOTOR VEHI	CLE	BICYCLE-R MOTOR VEHI ACCIDENTS	ICLE	MOTORCYCLE ACCIDENTS		PERCENT OF ACCIDENTS	PERCENT OF
CITY	POPULATION	NUMBER	RATE*	NUMBER	RATE*	NUMBER	RATE *	NUMBER	RATE *	involving speeding	INVOLVING ALCOHOL
MOUNT STERLING	5,362	4	1.49	24	9.0	5	1.9	12.0	4.5	2.90	5.2
Monticello	5,357	1	0.37	31	11.6	10	3.7	12.0	4.5	5.00	4.2
MOUNT WASHINGTON	5,226	4	1.53	8	3.1	9	3.4	9.0	3.4	4.50	3.9
MIDDLETOWN	5,016	0	0.00	0	0.0	0	0.0	0.0	0.0	0.00	0.0
CENTRAL CITY	4,979	2	0.80	13	5.2	5	2.0	9.0	3.6	3.30	4.5
Leitchfield	4,965	2	0.81	9	3.6	1	0.4	9.0	3.6	3.20	2.0
Shepherdsville	4,805	10	4.16	18	7.5	11	4.6	16.0	6.7	5.00	4.5
LUDLOW	4,736	1	0.42	22	9.3	24	10.1	7.0	3.0	2.00	5.1
GREENVILLE	4,689	0	0.00	6	2.6	0	0.0	7.0	3.0	3.90	2.3
Paintsville	4,354	1	0.46	13	6.0	9	4.1	3.0	1.4	2.40	2.7
SCOTTSVILLE	4,278	5	2.34	16	7.5	2	0.9	13.0	6.1	4.90	3.3
HIGHLAND HEIGHTS	•	2	0.95	13	6.2	11	5.2	7.0	3.3	4.30	1.8
WILMORE	4,215	0	0.00	1	0.5	0	0.0	2.0	0.9	4.40	2.8
PROVIDENCE	4,123	2	0.97	14	6.8	4	1.9	8.0	3.9	3.90	5.4
RUSSELL	4,014	7	3.49	5	2.5	5	2.5	9.0	4.5	3.30	3.1
BENTON	3,899	2	1.03	10	5.1	2	1.0	10.0	5.1	2.50	2.3
LAGRANGE	3,853	2	1.04	9	4.7	8	4.2	4.0	2.1	2.90	4.0
COLUMBIA	3,845	1	0.52	10	5.2	3	1.6	9.0	4.7	3.40	3.2
MORGANFIELD	3,776	2	1.06	10	5.3	7	3.7	2.0	1.1	4.30	3.4
CARROLLTON	3,715	4	2.15	26	14.0	18	9.7	10.0	5.4	5.10	5.7
BARBOURVILLE	3,658	0	0.00	10	5.5	5	2.7	9.0	4.9	5.60	4.7
VINE GROVE	3,586	4	2.23	7	3.9	4	2.2	5.0	2.8	11.40	9.6
PRESTONSBURG	3,558	5	2.81	17	9.6	3	1.7	12.0	6.7	2.60	3.5
GRAYSON	3,510	1	0.57	4	2.3	2	1.1	3.0	1.7	3.00	2.7
LANCASTER	3,421	0	0.00	6	3.5	3	1.8	3.0	1.8	4.60	3.0
PARK HILLS MARION	3,321	0	0.00	3	1.8	0	0.0	2.0	1.2	7.00	7.8
MAKLON SOUTHGATE	3,320	=	0.00	3	1.8	5	3.0	3.0	1.8	2.40	2.5
LAKESIDE PARK	3,266 3,131	1 0	0.61	7 3	4.3	2	1.2	4.0	2.4	6.30	3.2 5.1
DAWSON SPRINGS	3,131	0	0.00	3 4	1.9	3	1.9	4.0 6.0	2.6	12.10 4.00	4.2
CUMBERLAND	3,129	3	1.93	3	2.6	1 0	0.6	8.0	3.8 5.1	10.20	5.7
FULTON	3,112	1	0.65	10	1.9 6.5	8	5.2	4.0	2.6	4.50	4.9
FLEMINGSBURG	3,071	1	0.65	5	3.3	1	0.7	2.0	1.3	3.90	2.0
VILLIAMSTOWN	3,023	3	1.98	5	3.3	2	1.3	6.0	4.0	5.10	3.7
GRAYMOOR	2,911	0	0.00	0	0.0	0	0.0	0.0	0.0	0.00	0.0
BEAVER DAM	2,904	2	1.38	6	4.1	3	2.1	6.0	4.1	2.40	4.0
COLD SPRING	2,880	5	3.47	4	2.8	3	2.1	1.0	0.7	1.80	1.4
PRINGFIELD	2,875	5	3.48	13	9.0	0	0.0	4.0	2.8	4.30	3.5
OAK GROVE	2,863	0	0.00	0	0.0	0	0.0	0.0	0.0	0.00	0.0
OMPKINSVILLE	2,861	1	0.70	9	6.3	0	0.0	2.0	1.4	4.00	3.3
RVINE	2,836	2	1.41	9	6.3	3	2.1	3.0	2.1	1.50	4.9
STANTON	2,795	5	3.58	4	2.9	3	2.1	4.0	2.9	4.10	2.5
ENKINS	2,751	1	0.73	4	2.9	0	0.0	6.0	4.4	7.20	6.1
ODGENVILLE	2,721	2	1.47	6	4.4	1	0.7	0.0	0.0	0.50	0.7
ICKMAN	2,689	0	0.00	6	4.5	2	1.5	3.0	2.2	3.10	10.9
TANFORD	2,686	3	2.23	7	5.2	4	3.0	5.0	3.7	3.60	4.0
iarlan	2,686	3	2.23	18	13.4	9	6.7	12.0	8.9	2.20	2.1
OUNT VERNON	2,654	2	1.51	7	5.3	0	0.0	1.0	0.8	1.80	1.2
RESTVIEW HILLS	2,546	0	0.00	ó	0.0	0	0.0	0.0	0.0	0.00	0.0
ARTFORD	2,532	7	5.53	3	2.4	0	0.0	0.0	0.0	29.20	3.1
ALVERT CITY	2,531	2	1.58	1	0.8	2	1.6	4.0	3.2	3.80	1.6

^{*} Accidents per 10,000 population

TABLE 17. ACCIDENT RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1986-1990)

		AVER		NUMBER OF ACCIDENTS	ACCIDENT RATE
POPULATION CATEGORY	NUMBER OF CITIES	(ACC/100 MV	TE M) CITY	(1986-1990)	(ACC/100 MVM)
OVER 200,000	2	512	Lexington	15256 38060	893 437
	10	710	Louisville Richmond	1623	1186
20,000-55,000	10	718	Owensboro	3445	1045
			Jeffersontown	370	978
			Bowling Green	4811	776
			Ashland	2514	726
			Henderson	1206	711
			Hopkinsville	2987	696
			Paducah	3579	674
			Covington	7867	651 510
			Frankfort	2629	510 1210
10,000-19,999	18	678	Erlanger	1549	1108
•			Florence	2459	1052
			Georgetown	883 1234	901
			Shively	573	884
			Saint Matthews	1314	842
			Murray Danville	1130	824
			Somerset	1673	779
			Madisonville	1241	737
			Newport	3973	707
			Middlesboro	1221	578
			Elizabethtown	2646	549
			Winchester	1370	548
			Radcliff	1422	546 467
			Glasgow	1170	395
			Nicholasville	464 148	340
			Independence	248	160
	0.0		Fort Thomas Morehead	768	1325
5,000-9,999	29	683	Morenead Shelbyville	888	1216
			Maysville	1379	1154
			Mayfield	1016	1119
			Cynthiana	396	1057
			Lawrenceburg	514	1020
			Bardstown	914	978
			Lebanon	728	944 882
			Alexandria	293	863
			Harrodsburg	969 1075	847
			Versailles	36	828
			Fort Wright	589	749
			Franklin Campbellsville	639	744
			Corbin	1025	723
			Berea	750	683
			Fort Mitchell	31	673
			London	907	670
			Mount Washington	156	669
			Mount Sterling	505	63° 570
			Paris	1037 674	508
			Princeton	674 891	494
			Russellville	643	38
			Pikeville	484	36:
			Hazard	348	29
			Monticello Flatwoods	38	22
			Flatwoods Williamsburg	308	210
			Bellevue	14	50
2,500-4,999	43	595	Grayson	320	1519
£,300-4,333	47	3,3	Lakeside Park	576	1323

TABLE 17. ACCIDENT RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1986-1990)(continued)

C#	*TEGORY (198	6-1990)(continu =========	ea) ====================================	============	
		AVERAGE		NUMBER OF	ACCIDENT
POPULATION	NUMBER OF	RATE		ACCIDENTS	RATE
CATEGORY	CITIES	(ACC/100 MVM)	CITY	(1986-1990)	(ACC/100 MVM)
2,500-4,999	(cont.) 43	59 5	Cold Spring	947	1264
2,500-4,999	(00110.) 43	373	Stanton	192	1075
		4	Morganfield	350	989
	•		Marion	358	967
*			Leitchfield	732	963 936
			Lancaster	327 284	914
			Tompkinsville Columbia	490	905
			Wilmore	61	895
			Prestonsburg	649	867
			Central City	582	806
			Carrollton	217	786
			Benton	636	758 687
			Lagrange	227 256	642
			Springfield Beaver Dam	152	626
			Shepherdsville	321	607
			Barbourville	423	601
			Scottsville	377	587
			Irvine	293	577
			Providence	172	570 535
			Greenville	396 166	530
			Mount Vernon Williamstown	127	499
			Paintsville	321	486
			Highland Heights	518	481
			Vine Grove	222	467
			Dawson Springs	192	449 444
			Ludlow	14 77	385
			Russell	231	380
			Stanford Harlan	420	378
			Hodgenville	180	326
			Fulton	184	257
			Jenkins	126	249
			Hickman	33	195 170
			Cumberland	50 65	170
			Flemingsburg Calvert City	51	169
			Hartford	23	79
			Southgate	54	46
1,000-2,499	60	424	Falmouth	149	1739
			Morgantown	184	1164 1054
			Dry Ridge	303 197	999
			Eminence Owingsville	131	993
			Jackson	121	947
			Albany	366	897
			Augusta	20	846 832
			Munfordville	113 76	799
			Carlisle	178	773
			Elkton Warsaw	83	719
			Evarts	47	673
			Louisa	149	649
			Cadiz	232	632 622
			Muldraugh	25 120	589
			Walton	40	578
			Junction City Brandenburg	107	563
			Greensburg	96	560

TABLE 17. ACCIDENT RATES ON STATE-MAINTAINED STREETS BY CITY AND POPULATION CATEGORY (1986-1990) (continued)

TABLE 18. TOTAL ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED)(1986-1990 DATA)(ALL ROADS)

WITH CRIT	======================================	======================================	=======	*****
	ACCIDENT RATE			ACCIDENT RATE
NUMBER	OF (ACCIDENTS PER	NU	MBER OF	(ACCIDENTS PER
COUNTY ACCIDENTS	1000 POPULATION)	COUNTY ACC	IDENTS	1000 POPULATION)
		POPULATION CAT	ECODY 2	500-4 999
POPULATION CATEGO		Prestonsburg	1905	107.1 *
Louisville 910 Lexington 627		Harlan	1409	
Lexington 627 POPULATION CATEGO		Cold Spring	1321	91.7 *
Paducah 117		Paintsville	1818 1659 1450	83.5 *
Bowling Green 171	35 84.3 *	Russell	1659	82.7 *
Richmond 76	30 72.1 *	Columbia	1450	75.4 *
Covington 150	69.6 *	Scottsville	1597 1785	74.7 * 74.3 *
Ashland 81		Shepherdsville Leitchfield	1772	
Henderson 83	39 64.7 77 56.7	Oak Grove	984	
Owensboro 151 Frankfort 73		Highland Heights		
Hopkinsville 78		Benton	1264	
Jeffersontown 46	79 40.3	Central City	1518	
POPULATION CATEGO	RY 10,000-19,999	Irvine	859	60.6
Florence 95	92 103.0 *	Lagrange	1160	60.2
Somerset 47		Créstview Hills	759	59.6
Elizabethtown 72		Grayson	1029 889	58.6 57.8
Madisonville 62		Fulton Stanford	768	57.2
Saint Matthews 58 Shively 55		Barbourville	1031	56.4
		Beaver Dam	792	54.5
Glasgow 40 Danville 39		Carrollton	1012	54.5
Newport 56		Mount Vernon	706	53.2
Erlanger 41	96 52.5	Springfield	750	52.2
Georgetown 29		Tompkinsville	720	50.3
Winchester 40		Hodgenville	677 798	49.8 48.1
Murray 35		Marion Morganfield	861	45.6
Middlesboro 27 Radcliff 42		Flemingsburg	692	45.1
Nicholasville 27		Greenville	1039	44.3
Independence 17		Stanton	607	43.4
Fort Thomas 16	53 20.6	Lancaster	723	42.3
POPULATION CATEGO	RY 5,000-9,999	Williamstown	587	38.8
London 30		Providence	710 528	34.4 33.9
Maysville 31 Mount Sterling 23		Cumberland Dawson Springs	497	31.8
Mount Sterling 23 Hazard 22		Southqate	494	30.3
Bardstown 28		Lakeside Park	471	30.1
Corbin 29		Calvert City	370	29.2
Shelbyville 23	34 74.8 *	Ludlow	609	25.7
Mayfield 35		Hickman	322	23.9 23.2
Pikeville 22		Park Hills	386 386	21.5
Monticello 17		Vine Grove Jenkins	293	21.3
Lebanon 18 Russellville 23		Wilmore	180	8.5
Versailles 22		Hartford	96	7.6
Harrodsburg 22		Graymoor	21	1.4
Morehead 25	43 60.9 *	_		
Fort Wright 19		•		
Campbellsville 27				
Paris 24 Franklin 19				
Cynthiana 16				
Williamsburg 13				
Lawrenceburg 12				
Princeton 14	41.6			
Alexandria 11				*
Berea 17				
Fort Mitchell 13				
Bellevue 11 Elsmere 10				
	29.9			
Edgewood 11				
Mount Washington 7	10 28.3			
Flatwoods 10				
	24.7			
	10.0			
	96 7.8 72 1.8			
Lyndon				

^{*} Critical accident rate

TABLE 19. FATAL ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN DESCENDING ORDER WITH CRITICAL RATES IDENTIFIED) (1986-1990 DATA) (ALL ROADS)

		AL RATES IDENTIFIED) (1980-1990 DAIA)(ALL) ====================================
========	NUMBER OF	ACCIDENT RATE (ACCIDENTS PER	NUMBE		ACCIDENT RATE (ACCIDENTS PER
COUNTY	ACCIDENTS	10,000 POPULATION)	COUNTY ACCID	ENTS	10,000 POPULATION)
POPULAT	TION CATEGORY		POPULATION CAT		
Lexington		1.30	Hartford	7	5.53
Louisvill	Le 134	1.00	Shepherdsville	10 5	4.16 3.58
	TION CATEGORY	20,000-55,000	Stanton Russell	7	3.49
Paducah Richmond		1.04	Springfield	5	3.48
Covingtor	1 22	1.02	Cold Spring	5	3.47
Frankfort	: 10	0.77	Prestonsburg	5	2.81
Hopkinsvi Bowling G	lle 11	0.74	Scottsville	5	2.34
	Green 12	0.59	Stanford	. J	2.23 2.23
Ashland	5 11	0.42 0.41	Harlan Vine Grove	3 1	2.23
Owensboro Henderson	_	0.39	Carrollton	4	2.15
Jefferson		0.26	Williamstown	3	1.98
POPULAT		10,000-19,999	Cumberland	3	1.93
Elizabeth	town 24	2.64	Calvert City	2	1.58
Florence	21	2.26	Mount Vernon	2	1.51
Middlesbo		1.77	Hodgenville	2	1.47
Radcliff	13	1.31	Irvine Beaver Dam	2	1.41 1.38
Somerset	7 10	1.30 1.29	Morganfield	2	1.06
Shively Glasgow	7	1.13	Lagrange	2	1.04
Erlanger	9	1.13	Benton	2	1.03
Independe	ence 5	0.96	Providence	2	0.97
Wincheste	r 7	0.89	Highland Heights	2	0.95 0.81
Madisonvi	.lle 7 6	0.86 0.64	Leitchfield Central City	2	0.80
Newport Saint Mat	thews 5	0.63	Jenkins	1	0.73
Nicholasv	rille 4	0.59	Tompkinsville	ī	0.70
Georgetow		0.53	Fulton	1	0.65
Murray	2	0.28	Flemingsburg	1	0.65
Danville	1 nas 1	0.16 0.12	Southgate	7555533443322222222222222111111	0.61 0.57
Fort Thom	ION CATEGORY		Grayson Columbia	ī	0.52
Hazard	12	4.43	Paintsville	1 1	0.46
Corbin	10	2.70	Ludlow	1	0.42
Taylor Mi	.11 6	2.17			
Lebanon	6	2.11 2.08			
London Lawrenceb	ourg 6	2.03			
Shelbyvil	le 6	1.92			
Mount Was	hington 4	1.53			
Mount Ste		1.49			
Bardstown Williamsb	urg 4	1.47 1.46			
Princeton		1.44			
Cynthiana	. 4	1.23			
Berea	5	1.10			
Fort Mitc	hell 4	1.08			
Versaille	s j	0.83 0.77			
Flatwoods Campbells	ville 3	0.63			
Pikeville	2	0.63			
Fort Wrig	ht 2	0.61			
Dayton	2	0.61			
Maysville	2	0.56			
Harrodsbu Russellvi	ry 4 11e 2	0.55 0.54			
Franklin	2	0.53			
Mayfield	2	0.40			
Monticell		0.37			
Alexandri	a 1	0.36			
Bellevue	1 1	0.29 0.24			
Morehead Paris	1	0.23			
	-	0.20			

^{*} Critical accident rate

TABLE 20. ACCIDENTS INVOLVING ALCOHOL BY COUNTY AND POPULATION CATEGORY
(IN ORDER OF DECREASING PERCENTAGES)

			COHOL-RELATED	PER	CENT OF TOTAL I	
		ACCIDENTS		ALL	AGES 16-18	AGES 19-20
COUNTY	ALL	AGES 16-18	AGES 19-20	UNDER 10,000	12020 10-10	
	7.0	13	POPULATION CATEGORY 9	16.0	12.0	18.4
Elliott	78 64	3	5	13.0	3.8	9.1
Owsley	64 77	11	5	11.9	7.6	6.4
Spencer		3	3	11.5	13.0	18.
Robertson	11 58	4	9	10.6	3.3	12.
Nicholas	40	6	5	9.2	6.1	11.0
Menifee	31	4	2	8.7	5.8	6.
Carlisle Gallatin	85	5	8	8.4	3.5	8.3
Wolfe	93	10	11	8.4	7.0	10.
Carroll	186	24	26	8.2	6.8	11.
Livingston	89	8	7	8.2	3.4	6.
Ballard	79	4	5	7.3	2.1	5.
Cumberland	41	8	3	7.1	7.9	5.1
Bracken	66	7	11	6.7	3.8	9.
McLean	74	8	8	6.6	3.6	5.
Lyon	45	4	5	6.6	3.8	7.
Hancock	60	7	3	6.5	3.3	3.
Fulton	103	11	13	6.5	4.1	8.
Bath	101	17	15	6.5	5.8	8.
Hickman	28	3	4	6.4	4.5	10. 1.
Owen	71	5	2	6.0	2.1	8.
Lee	41	2	6	5.9	1.7 1.9	. 8.
Clinton	67	6	11	5.6	3.2	1.
Trimble	36	5	2	4.7	3.5	3.
Crittenden	61	12	5	4.5 3.4	1.4	4.
Metcalfe	36	3	6			
			POPULATION CATEGORY	10,000 - 14,999	9 8.2	12.
Casey	88	13	12	11.0	5.7	8.
Magoffin	141	14	14	10.7 10.6	6.3	5.
Leslie	94	7	4	10.4	5.3	12.
Morgan	120	12	16	8.5	6.2	8.
Henry	193	27	24	7.8	4.1	6.
Lewis	129	12	11 10	7.7	5.2	6.
Lawrence	118	12 22	14	7.4	4.4	6.
Caldwell	169	11	18	7.3	3.1	5.
Rockcastle	167 83	7	11	7.1	3.1	8.
Todd	109	10	9	6.5	2.8	4.
Powell	58	11	9	6.3	4.8	7.
Jackson		21	15	6.2	4.8	7.
Russell	. 118 77	5	10	6.2	1.7	6.
Edmonson	116	14	14	6.1	3.1	5.
Estill	102	9	8	6.1	2.5	4.
Larue Anderson	146	17	24	6.0	2.8	7.
Allen	165	22	10	6.0	3.6	3. 3.
Washington	77	. 7	6	5.9	2.7 3.4	4.
Trigg	105	11		5.7 5.5	3.1	4.
Webster	122 95	14 15	11 10	5.5	3.8	5.
Pendleton	92	14	10	5.3	4.3	5.
Fleming Monroe	53	6		5.3	2.4	5.
Hart	98	13	3	5.0	4.5	1 6
Martin	58	5		4.4	2.1 1.8	2.
Garrard	58	4	4	4.4	2.4	4
Butler	74	. 9	10	2.6	2.0	3
Green	36	5				
			POPULATION CATEGORY		9 3.0	10
McCreary	95	5		10.3 10.1	5.3	8
Meade	288	35 26		9.4	6.1	6
Clay	240	26 37		8.8	5.9	7
Marion	256 117	37 9		7.4	3.3	6
Knott	172	15		7.1	3.6	6
Lincoln Breathitt	151	. 8		7.0	2.5	6
Bourbon	289	33	26	7.0	4.2	6
Carter	231	25		7.0	3.9	5

TABLE 20. ACCIDENTS INVOLVING ALCOHOL BY COUNTY AND POPULATION CATEGORY
(IN ORDER OF DECREASING PERCENTAGES) (continued)

		BER OF ALCOHOL		PE	PERCENT OF TOTAL ACCIDENTS		
COUNTRY		ACCIDENTS (1986			INVOLVING ALCOHOL		
COUNTY	ALL 366	AGES 16-18	AGES 19-20	ALL	AGES 16-18	AGES 19-20	
Shelby Woodford	283	29 29	49	6.9 6.5	3.1	8.8	
Ohio	195	23	41 22	6.5	3.2 3.7	7.9	
Mercer	231	23	24	6.3	2.9	7.0	
Rowan	272	33	45	6.1	4.1	5.8 5.6	
Grant	213	21	28	6.1	3.0	6.3	
Union	153	18	16	6.0	3.2	5.6	
Adair	145	13	16	6.0	2.5	5.4	
Wayne	130	15	22	5.8	2.7	7.8	
Harrison	167	22	26	5.5	4.2	7.7	
Montgomery	230	33	18	5.5	3.7	3.6	
Mason	242	26	21	5.3	3.6	4.3	
Johnson	161	16	22	5.1	2.6	6.2	
Logan	201	21	25	4.9	2.4	5.3	
Taylor	177	35	20	4.8	4.1	4.2	
Breckinridge	82	11	12	4.6	2.7	5.6	
Grayson	156	17	10	4.5	2.2	2.5	
Simpson	137	15	19	4.3	2.1	5.0	
Scott	219	20	27	4.0	1.9	4.7	
		P	OPULATION CATEGORY	25,000 - 50,000			
Floyd	526	61	48	7.8	5.1	6.2	
Knox	309	39	35	7.6	4.8	6.9	
Letcher	196	22	21	6.8	4.9	6.6	
Whitley	358	27	33	6.7	3.1	5.6	
Harlan	327	37	38	6.4	4.1	6.6	
Nelson	359	46	50	6.4	3.5	7.0	
Bell	319	35	25	6.4	4.2	4.6	
Perry	339	34	37	6.0	3.4	5.2	
Oldham	274	43	31	5.8	3.5	6.5	
Muhlenberg	316	45	29	5.8	3.6	4.7	
Clark	363	38	35	5.8	3.1	5.2	
Graves	351 403	38	29	5.7	2.9	4.3	
Laurel Franklin	403 573	55 66	37	5.7	4.1	4.5	
	282	36	65	5.6	3.8	5.9	
Greenup Marshall	217	30	30	5.6 5.4	3.3 3.3	5.6	
marshaii Bullitt	331	42	19	5.4	3.3 2.7	4.4	
Henderson	551	57	58 60	4.9	2.7	6.6 5.2	
Calloway	239	32	32	4.7	2.8	3.8	
Pulaski	404	45	52 52	4.6	2.5	4.8	
Tessamine	246	26	20	4.5	2.4	3.0	
opkins	414	48	49	4.0	2.1	4.4	
Barren	251	33	35	3.7	2.4	5.0	
Boyle	204	23	21	3.7	2.3	3.5	
		PO	PULATION CATEGORY	OVER 50,000			
Christian	774	74	103	6.8	3.9	7.5	
Madison	932	100	126	6.8	4.3	6.1	
cCracken	1019	107	90	6.3	3.1	4.7	
ike	725	80	75	6.1	4.0	5.3	
Centon	1925	152	184	5.8	2.8	5.2	
ampbell	924	68	112	5.6	2.3	5.5	
loone	887	97	89	5.3	2.9	4.6	
arren	1116	106	129	5.1	2.5	4.1	
'ayette	3163	274	328	5.0	3.2	4.2	
aviess	1011	166	132	5.0	3.6	5.2	
ardin	717	81	96	4.5	2.8	4.9	
loyd	508	63	40	4.1	3.0	3.2	
efferson	6808	599	642	4.1	2.3	3.5	

TABLE 21. ACCIDENTS INVOLVING ALCOHOL BY CITY AND POPULATION CATEGOTY(IN ORDER OF DECREASING PRECENTAGES)

	=======================================			========	=======================================
NUMBE	R OF PERCEN	ITAGE	NUM ALCOHOL-R ACC CITY (1986	BER OF	PERCENTAGE
ALCOHOL-REL	ATED OF ACCID	ENTS	ALCOHOL-R	ELATED	OF ACCIDENTS
ACCID	ENTS INVOI	LVING	ACC	IDENTS	INVOLVING
ACCID CITY (1986-1	.990) ALC	COHOL	CITY (1986	-1990)	ALCOHOL
			POPULATION CATEGO		
POPULATION CATEGORY		F 1	Hickman	35	10.9
20112119 11	3173 3420	3.8	Hickman	33 37	9.6
Louisville POPULATION CATEGORY	3420		Vine Grove Park Hills	30	7.8
POPULATION CATEGORI	903	6.0	Jenkins	18	6.1
Covington Richmond Paducah Hopkinsville Owensboro	903 402 608 392 665 723 309 333 279	5.3	Cumberland	30	5.7
Paducah	608	5.2	Carrollton	58	5.7
Honkingville	392	5.0	Providence	38	5.4
Owensboro	665	4.4	Ludlow	31	5.1
Bowling Green	723	4.2	Lakeside Park	24	5.1
Bowling Green Frankfort	309	4.2	Irvine	42	4.9
Henderson	333	4.0	Fulton	44	4.9
Ashland	279	3.4	Barbourville	48	4.7
Jeffersontown	10 /	2.3	Shepherdsville Central City Dawson Springs Lagrange	80	4.5 4.5
POPULATION CATEGORY			Central City	69	4.2
Independence	114	6.4	Dawson Springs	21	4.2
Newport	350	6.2	Lagrange	46	
Fort Thomas	79	4.8	Beaver Dam	32	4.0
Radcliff	189	4.4	Stanford	31	4.0 3.7
Middlesboro	114	4.2	Williamstown Springfield	22 26	3.5
		4.1	Springfield	67	3.5
Erlanger	156 206	3.7	Prestonsburg	29	3.4
Shively	206	3.7	Morganfield	24	3.3
Erlanger Shively Florence Nicholasville Glasgow Somerset	334	3.5	Tompkinsville	53	3.3
Nicholasville	94	3.4	Scottsville Columbia	47	3.2
Glasgow	124 121	3.1 2.6	Southgate	19	3.2
Somerset	101	2.6	Hartford	3	3.1
Elizabethtown	71	2.4	Russell	52	3.1
Georgetown Murray	191 71 85	2.4	Lancaster	22	3.0
Danville	90	2.3	Wilmore	5	2.8
Madisonville	136	2.2	Paintsville	49	2.7
Saint Matthews	107	1.8	Grayson	28	2.7
POPULATION CATEGORY	5,000-9,999		Marion	20	2.5
Villa Hills	33	8.5	Stanton	15	2.5
Villa Hills Fort Wright Elsmere	143	7.2	Benton	29	2.3
Elsmere	68	6.6	Greenville	24	2.3
Bellevue Fort Mitchell	73 88 89	6.3	Harlan	30	2.1
Fort Mitchell	88	6.3	Flemingsburg	14	2.0 2.0
Princeton	89	6.2	Leitchfield	35 36	1.8
Lebanon	102	5.6	Highland Heights Calvert City Cold Spring	. 20	1.6
Mount Sterling	120	5.2	Calvert City	16	1.4
Paris	127 114	5.2 5.1	Mount Vernon	7	1.2
	117	5.0	Hodgenville	4	0.7
Russellville	39	4.8	Oak Grove	ō	0.0
Dayton	82	4.6	Crestview Hills	Ö	0.0
Berea Lawrenceburg	54	4.4	Graymoor	Ó	0.0
Monticello	73	4.2	<u></u>		
Mount Washington	29	3.9			
Maysville	123	3.9			
Bardstown	111	3.9			ė.
Taylor Mill	31	3.9			
Harrodsburg	84	3.7			
Versailles	82	3.6			
Williamsburg	45	3.5			
Campbellsville	97	3.5			
Corbin	102	3.4			
Hazard	77	3.4			
Flatwoods	35 75	3.3			
Shelbyville	75 70	3.2			
Morehead	78 51	3.1 3.0			
Cynthiana	51 57	2.9			
Franklin	83	2.7			
London	85	2.4			
Mayfield Alexandria	24	2.1			
Edgewood	20	1.7			
Lyndon	0	ō.ó	•		
Middletown	ŏ	0.0			

	ALCOHOL	CONVICT	ONS PER	CALENDER	YEAR_	TOTAL ALCOHOL CONVICTIONS	ANNUAL AVERAGE ALCOHOL CONVICTIONS PER 1,000	ALCOHOL CONVICTIONS PER ALCOHOL- RELATED
COUNTY	1986	1987	1988	1989	1990	(FIVE YEARS)	LICENSED DRIVERS	ACCIDENT
Adair	99	113	99	77	96	484	10.3	3.3
Allen	102 79	96 99	84 95	89 105	73 126	444 504	9.6 10.4	2.7
Anderson Ballard	64	69	51	47	118	349	11.5	3.5 4.4
Barren	262	281	205	213	241	1,202	10.7	4.8
Bath	68	30	57	70	87	312	10.0	3.1
Bell	483	359	319	270	293	1,724	19.4	5.4
Boone	484	464	348	375	418	2,089	11.2	2.4
Bourbon Boyd	167 349	174 331	174 309	148 275	241 331	904 1,595	14.3	3.1 3.1
Boyle	129	148	115	98	129	619	7.3	3.0
Bracken	22	34	32	36	51	175	7.1	2.7
Breathitt	98	109	67	91	93	458	10.7	3.0
Breckinridge	80	58	82	74	77	371	6.8	4.5
Bullitt	390	304	192	154	249	1,289	8.2	3.9
Butler	66 107	40 89	45 90	80 81	60 97	291 464	8.1 10.1	3.9 2.7
Caldwell Calloway	179	152	180	134	247	892	9.1	3.7
Campbell	558	440	361	370	373	2,102	7.9	2.3
Carlisle	14	14	16	19	49	112	5.7	3.6
Carroll	101	81	116	106	153	557	17.8	3.0
Carter	195	136	116	134	240	821	11.0	3.6
Casey	76	129	124	93	112	534	11.9	6.1
Christian	802 308	576 241	396 289	337 317	358 380	2,469	15.6 15.4	3.2 4.2
Clark Clay	252	269	243	224	284	1,535 1,272	21.9	5.3
Clinton	88	63	55	53	114	373	12.5	5.6
Crittenden	54	27	45	44	49	219	7.1	3.6
Cumberland	53	48	67	52	57	277	12.4	6.8
Daviess	726	722	772	743	828	3,791	12.8	3.7
Edmonson	38 29	31 17	31 20	34 21	35 73	169 160	4.9 8.4	2.2 2.1
Elliott Estill	89	106	119	94	107	515	11.3	4.4
Fayette	1,460	1,957	2,128	2,081	2,395	10,021	13.6	3.2
Fleming	47	67	60	63	79	316	8.0	3.4
Floyd	750	629	519	552	518	2,968	23.0	5.6
Franklin	439	365	403	445	437	2,089	14.2	3.6
Fulton Gallatin	132 43	85 21	64 36	69 44	88 51	438 195	16.0 11.1	4.3 2.3
Garrard	109	92	51	44	67	363	9.7	6.3
Grant	227	245	169	143	149	933	18.1	4.4
Graves	162	162	188	167	243	922	8.0	2.6
Grayson	108	111	141	102	109	571	8.2	3.7
Green	28	26	20	20	27	121	3.4	3.4
Greenup	322 21	265 32	263 30	257 57	307 16	1,414 156	11.3 5.7	5.0 2.6
Hancock Hardin	352	448	494	536	718	2,548	10.2	3.6
Harlan	372	334	345	383	400	1,834	16.4	5.6
Harrison	64	40	58	46	86	294	5.5	1.8
Hart	114	100	71	96	69	450	8.9	4.6
Henderson	473	404	380	287	367	1,911	13.0 12.1	3.5 2.8
Henry Hickman	103 19	102 10	120 12	112 12	94 20	531 73	3.7	2.6
Hopkins	376	456	309	324	443	1,908	12.2	4.6
Jackson	95	78	51	37	75	336	9.8	5.8
Jefferson	6,006	5,745	4,949	5,464	7,187	29,351	13.1	4.3
Jessamine	199	203	166	162	233	963	10.2	3.9
Johnson	245	170	183	144	196	938	12.8 10.6	5.8 2.5
Kenton Knott	1,182 177	985 125	938 125	777 38	887 94	4,769 559	11.7	4.8
Knox	300	236	302	292	388	1,518	19.8	4.9
Larue	69	99	98	111	107	484	11.8	4.7
Laurel	554	475	505	475	557	2,566	19.8	6.4
Lawrence	124	101	125	126	126	602	15.0	5.1
Lee	104	91 50	66 70	57 106	81	399 452	18.5 11.9	9.7 4.8
Leslie Letcher	111 171	58 134	70 161	106 166	107 234	452 866	10.4	4.4
Letcher	94	80	74	66	112	426	10.4	3.3
Lincoln	119	123	124	148	162	676	11.2	3.9

TABLE 22. SUMMARY OF ALCOHOL CONVICTIONS BY COUNTY (1986-1990 DATA) (continued)

							1111111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALCOHOL
	AT CONOT	CONTITOT	IONS PER	CATEMBE	מגווע מי	TOTAL ALCOHOL	ANNUAL AVERAGE	CONVICTIONS
	ALCOHOL	CONVICI	TONS PER	CALLENDE	K IEAR	CONVICTIONS	ALCOHOL CONVICTIONS PER 1.000	PER ALCOHOL- RELATED
COUNTY	1986	1987	1988	1989	1990	(FIVE YEARS)	LICENSED DRIVERS	ACCIDENT
								ACCIDENT.
Livingston	76	51	52	57	71	307	9.5	3.4
Logan	270	220	195	245	261	1,191	14.8	5.9
Lyon	46	39	28	56	64	233	11.2	5.2
McCracken	765	626	598	705	972	3,666	16.4	3.6
McCreary	105	136	112	114	238	705	15.7	7.4
McLean	35		31	29	29	157	4.4	2.1
Madison	701		624	615	798	3,492	21.0	3.7
Magoffin	155		143	63	113	608	16.6	4.3
Marion	95		72	83	74	449	8.4	1.8
Marshall	148	138	148	173	164	771	7.9	3.6
Martin	167	109	143	78	96	593	15.2	10.2
Mason	200	133	131	106	150	720	13.2	3.0
Meade	165	115	132	147	170	729	12.4	2.5
Menifee	23	20	15	15	28	101	6.0	2.5
Mercer	158	131	142	154	179	764	11.6	3.3
Metcalfe	48	48	59	54	52	261	8.8	7.3
Monroe	87	91	59	34	68	339	8.9	6.4
Montgomery	189	225	189	148	163	914	14.3	4.0
Morgan	84	56	108	90	119	457	13.5	3.8
Muhlenberg	204	211	196	187	316	1,114	10.5	3.5
Nelson	193	162	194	201	245	995	10.1	2.8
Nicholas	24	32	46	43	56	201	8.7	3.5
Ohio	171	132	109	97	95	604	8.5	3.1
Oldham	213	189	182	152	142	878	8.6	3.2
Owen	33	36	38	56	56	219	8.1	3.1
Owsley	59	53	25	56	59	252	16.4	3.9
Pendleton	39	49	61	38	47	234	6.2	2.5
Perry	506	364	330	362	369	1,931	20.9	5.7
Pike	944 92	611 58	447	463	623	3,088	13.8	4.3
Powell Pulaski	283	267	56 224	87 388	97	390	10.8	3.6
Robertson	203	10	3	388 7	485 18	1,647	10.6	4.1
Rockcastle	145	103	73	128	135	42 584	5.8 13.0	3.8
Rowan	309	401	450	314	283	1,757	32.7	3.5 6.5
Russell	104	99	97	138	137	575	11.9	4.9
Scott	238	231	168	188	200	1,025	13.3	4.7
Shelby	239	206	209	158	212	1,023	12.5	2.8
Simpson	124	98	80	63	96	461	9.1	3.4
Spencer	21	26	29	39	45	160	6.8	2.1
Taylor	142	119	155	153	140	. 709	10.0	4.0
Todd	62	69	47	45	61	284	8.1	3.4
Trigg	115	73	104	86	106	484	13.2	4.6
Trimble	27	19	22	16	16	100	4.8	2.8
Union	159	116	117	165	220	777	14.4	5.1
Warren	1,146	954	833	787	936	4,656	23.1	4.2
Washington	44	35	33	47	47	206	6.4	2.7
Wayne	83	52	53	43	80	311	6.7	2.4
Webster	58	62	79	51	94	344	7.9	2.8
Whitley	211	210	220	181	201	1,023	11.6	2.9
Wolfe	36	24	36	50	36	182	9.0	2.0
Woodford	165	162	171	228	230	956	16.3	3.4
TOTAL	31,592	28,921	26,980	27,050	33,160	147,703	12.6	3.8

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES)

POPULATION CATEGORY		PER 1,000		PER ALCOHOL-RELATED
<u>GIII EGORI</u>	COUNTY	LICENSED DRIVERS	COUNTY	ACCIDENT
UNDER 10,000	Lee	18.5	Lee	9.7
UNDER 10,000	Carroll	17.8	Metcalfe	7.3
	Owsley	16.4	Cumberland	6.8
	Fulton	16.0	Clinton	5.6
	Clinton	12.5	Lyon	5.2
	Cumberland	12.4	Ballard	4.4
•	Ballard -	11.5	Fulton	4.3
	Lyon Gallatin	11.2	Owsley	3.9 3.8
	Bath	11.1 10.0	Robertson Carlisle	3.6
	Livingston	9.5	Crittenden	3.6
	Wolfe	9.0	Nicholas	3.5
	Metcalfe	8.8	Livingston	3.4
	Nicholas	8.7	Bath	3.1
	Elliott	8.4	Owen	3.1
	Owen	8.1	Carroll	3.0
	Bracken	7.1	Trimble	2.8
	Crittenden	7.1	Bracken	2.7
	Spencer	6.8	Hickman	2.6
	Menifee	6.0	Hancock	2.6
	Robertson	5.8	Menifee	2.5
	Carlisle	5.7	Gallatin	2.3
	Hancock	5.7	McLean	2.1
	Trimble McLean	4.8 4.4	Spencer Elliott	2.1
	McLean Hickman	3.7	Wolfe	2.1
	nickiidn	3.,	WOILE	2.0
10,000 - 14,999	Magoffin	16.6	Martin	10.2
,	Martin	15.2	Monroe	6.4
	Lawrence	15.0	Garrard	6.3
	Morgan	13.5	Casey	6.1
	Trigg	13.2	Jackson	5.8
	Rockcastle	13.0	Lawrence	5.1 4.9
	Henry	12.1 11.9	Russell Leslie	4.8
	Casey Russell	11.9	Larue	4.7
	Leslie	11.9	Trigg	4.6
	Larue	11.8	Hart	4.6
	Estill	11.3	Estill	4.4
	Powell	10.8	Magoffin	4.3
	Anderson	10.4	Butler	3.9
	Lewis	10.4	Morgan	3.8
	Caldwell	10.1	Powell	3.6
	Jackson	9.8	Rockcastle	3.5 3.5
	Garrard Allen	9.7 9.6	Anderson Fleming	3.4
	Hart	8.9	Todd	3.4
	Monroe	8.9	Green	3.4
	Butler	8.1	Lewis	3.3
	Todd	8.1	Webster	2.8
	Fleming	8.0	Henry	2.8
	Webster	7.9	Caldwell	2.7
	Washington	6.4	Allen	2.7
	Pendleton	6.2	Washington	2.7
	Edmonson	4.9	Pendleton	2.5
	Green	3.4	Edmonson	2.2
I 000 24 000	Dorran	32.7	VaCroomy	7.4
15,000 - 24,999	Rowan Clay	21.9	McCreary Rowan	6.5
	Grant	18.1	Logan	5.9
	Woodford	16.3	Johnson	5.8
	McCreary	15.7	Clay	5.3
•	Logan	14.8	Union	5.1
	Union	14.4	Knott	4.8
	Montgomery	14.3	Scott	4.7
	Bourbon	14.3	Breckinridge	4.5
			_	
	Scott	13.3	Grant	4.4
•			Grant Taylor Montgomery	4.4 4.0 4.0

TABLE 23. ALCOHOL CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1986-1990) (continued)

		ANNUAL AVERAGE ALCOHOL CONVICTIONS		ALCOHOL CONVICTIONS
POPULATION		PER 1,000		PER ALCOHOL-RELATED
CATEGORY	COUNTY	LICENSED DRIVERS	COUNTY	ACCIDENT
15,000 - 24,999	Meade	12.4	Grayson	3.7
(cont.)	Knott	11.7	Carter	3.6
•	Mercer	11.6	Woodford	3.4
	Lincoln	11.2	Simpson	3.4
	Carter	11.0	Adair	3.3
	Breathitt	10.7	Mercer	3.3
	Adair	10.3	Bourbon	3.1
	Taylor	10.0	Ohio	3.1
	Simpson	9.1	Breathitt	3.0
	Ohio	8.5	Mason	3.0
	Marion	8.4	Shelby	2.8
	Grayson	8.2	Meade	2.5
	Breckinridge	6.8	Wayne	2.4
	Wayne	6.7	Harrison	1.8
	Harrison	5.5	Marion	1.8
	marrabon.	3.3	rat ton	
25,000 - 50,000	Floyd	23.0	Laurel	6.4
	Perry	20.9	Perry	5.7
	Knox	19.8	Floyd	5.6
	Laurel	19.8	Harlan	5.6
	Bell	19.4	Bell	5.4
	Harlan	16.4	Greenup	5.0
	Clark	15.4	Knox	4.9
	Franklin	14.2	Barren	4.8
	Henderson	13.0	Hopkins	4.6
	Hopkins	12.2	Letcher	4.4
	-	11.6	Clark	4.2
	Whitley			4.1
	Greenup	11.3	Pulaski	3.9
	Barren	10.7	Jessamine	3.9
	Pulaski	10.6	Bullitt	3.7
	Muhlenberg	10.5	Calloway	3.6
	Letcher	10.4	Franklin	3.6
	Jessamine	10.2	Marshall	3.5
	Nelson	10.1	Muhlenberg	3.5
	Calloway	9.1	Henderson	
	Oldham	8.6	Oldham	3.2
	Bullitt	8.2	Boyle	3.0
	Graves	8.0	Whitley	2.9
	Marshall	7.9	Nelson	2.8
	Boyle	7.3	Graves	2.6
OTHER EO OOO	Warren	23.1	Jefferson	4.3
OVER 50,000	Wallen Madison	21.0	Pike	4.3
	McCracken	16.4	Warren	4.2
	Christian	15.6	Daviess	3.7
	Pike	13.8	Madison	3.7
	Pike Fayette	13.6	Madison McCracken	3.6
	Jefferson			3.6
		13.1	Hardin	3.2
	Daviess	12.8	Christian	3.2
	Boone	11.2	Fayette	3.2
	Kenton	10.6	Boyd	
	Hardin	10.2	Kenton	2.5
	Boyd	9.0	Boone	2.4
	Campbell	7.9	Campbell	2.3

TABLE 24. PERCENTAGE OF DRIVERS CONVICTED OF DUI ARREST (BY COUNTY) (1985 - 1986, 1988 - 1990)

	TOTAL DUI	TOTAL DUI	CONVICTION
COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE
Adair	749	456	60.9
Allen	511	415	81.2
Anderson	697	462	66.3
Ballard	436	319	73.2
Barren	1,751	1,245	71.1
Bath	451	366	81.2
Bell	2,599	1,792	68.9
Boone	3,814	2,099	55.0
Bourbon	1,144	958	83.7
Boyd	2,577	1,737	67.4
Boyle	745	605	81.2
Bracken	225	192	85.3
Breathitt	1,175	399	34.0
Breckinridge	437	371	84.9
Bullitt	2,759	1,405	50.9
Butler	360	307	85.3
Caldwell	677	484	71.5
Calloway	1,191	976	81.9
Campbell	3,403	2,268	66.6
Carlisle	159	113	71.1
Carroll	966	601	62.2
Carter	1,255	861	68.6
Casey	817	444	54.3
Christian	4,408	2,649	60.1
Clark	2,497	1,636	65.5
Clay	2,008	1,137	56.6
Clinton	657	372	56.6
Crittenden	299	251	83.9
Cumberland	395	260	65.8
Daviess	4,830	3,870	80.1
Edmonson	299	181	60.5
Elliott	291	175	60.1
Estill	840	523	62.3
Fayette	11,325	10,004	88.3
Fleming	393	306	77.9
Floyd	3,839	2,802	73.0
Franklin	3,527	2,264	64.2
Fulton	690	463	67.1
Gallatin	406	239	58.9
Garrard	485	330	68.0
Grant	1,293	818	63.3
Graves	1,166	895	76.8
Grayson	728	604	83.0
Green	215	133	61.9
Greenup	2,446	1,497	61.2
Hancock	172	157	91.3
Hardin	4,932	2,619	53.1
Harlan	3,223	1,870	58.0
Harrison	427	323	75.6
Hart	585	456	77.9
Henderson 	2,615	2,015	77.1
Henry	665	533	80.2
Hickman	178	108	60.7
Hopkins	2,534	1,876	74.0
Jackson 	557	355	63.7
Jefferson	38,331	27,855	72.7
Jessamine	1,140	968	84.9
Johnson	1,084	896	82.7
Kenton	8,467	4,917	58.1
Knott	1,088	604	55.5
Knox	2,165	1,579	72.9
Larue	527	441	83.7

TABLE 24. PERCENTAGE OF DRIVERS CONVICTED OF DUI ARREST (BY COUNTY) (1985-1986, 1988-1990) (continued)

	(BI COUNTI)	(1985-1986, 1988-1990)	(concinued)	
		TOTAL DUI	TOTAL DUI	CONVICTION
COUNTY		ARRESTS	CONVICTIONS	PERCENTAGE
Laurel		3,138	2,514	80.1
Lawrence		935 551	602 351	64.4 63.7
Lee Leslie		875	530	60.6
Letcher		1,424	883	62.0
Lewis		600	440	73.3
Lincoln		825	668	81.0
Livingston		470	313	66.6
Logan	*	1,639	1,183	72.2
Lyon		222	238	107.2
McCracken		5,501	3,882	70.6
McCreary		1,121	728	64.9
McLean		376	171	45.5
Madison		5,221	3,434	65.8
Magoffin		819	515	62.9
Marion		967	443	45.8
Marshall		1,805	811	44.9
Martin		902	597	66.2
Mason		831	757	91.1
Meade		1,450	811	55.9
Menifee		119	99	83.2
Mercer		992	806	81.3
Metcalfe		363	246	67.8
Monroe		471	285	60.5
Montgomery		1,059	896	84.6 75.5
Morgan Muhlenberg		588 1,481	444 1,095	73.9
Munitemberg Nelson		1,537	1,069	69.6
Nicholas		244	176	72.1
Ohio		715	563	78.7
Oldham		1,384	828	59.8
Owen		343	212	61.8
Owsley	•	487	254	52.2
Pendleton		411	213	51.8
Perry		3,251	1,932	59.4
Pike		5,580	3,159	56.6
Powell		730	. 392	53.7
Pulaski		2,240	1,561	69.7
Robertson		71	38	53.5
Rockcastle		1,049	575	54.8
Rowan		2,067	1,588	76.8
Russell		897	588	65.6 68.5
Scott		1,445	990	64.4
Shelby		1,795 611	1,156 470	76.9
Simpson Sponger		339	154	45.4
Spencer Taylor		1,129	727	64.4
Todd		585	255	43.6
Trigg		698	490	70.2
Trimble		184	101	54.9
Union		960	791	82.4
Warren		7,202	4,763	66.1
Washington		353	218	61.8
Wayne		435	352	80.9
Webster		397	334	84.1
Whitley		1,758	1,044	59.4
Wolfe		339	184	54.3
Woodford		1,226	953	77.7
TOTAL		215,832	147,728	68.4

TABLE 25. DUI ARREST CONVICTION RATES BY COUNTY AND POPULATION CATEGORY
(IN DESCENDING ORDER) (1985-1986 & 1988-1990)

POPULATION	AVERAGE CONVICTION		TOTAL	TOTAL	CONVICTION
CATEGORY	PERCENTAGE	COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE
UNDER 10,000	65.2	Lyon	222	238	107.2
u.,, 10, 100		Hancock	172	157	91.3
		Bracken	225	192	85.3
		Crittenden	299	251	83.9
		Menifee	119	99	83.2
		Bath	451	366	81.2
		Ballard	436	319	73.2
		Nicholas	244	176	72.1
		Carlisle	159	113	71.1
		Metcalfe	363	246	67.8
		Fulton	690	463	67.1
		Livingston	470	313	66.6
		Cumberland	395	260	65.8
		Lee	551	351	63.7
		Carroll	966	601	62.2
		Owen	343	212	61.8
		Hickman	178	108	60.7
		Elliott	291	175	60.1
		Gallatin	406	239	58.9
		Clinton	657	372	56.6
		Trimble	184	. 101	54.9
		Wolfe	339 ,	184	54.3
		Robertson	71	38	53.5
		Owsley	487	254	52.2
		McLean .	376	171	45.5
		Spencer	339	154	45.4
10,000 - 14,999	66.0	Butler	360	307	85.3
		Webster	397	334	84.1
		Larue	527	441	83.7
		Allen	511	415	81.2
		Henry	665	533	80.2
		Hart	585	456	77.9
		Fleming	393	306	77.9
		Morgan	588	444	75.5
		Lewis	600	440	73.3
		Caldwell	677	484	71.5
		Trigg	698	490	70.2
		Garrard	485	330	68.0
		Anderson	697	462	66.3
		Martin	902	597	66.2
		Russell	897	588	65.6
		Lawrence	935 557	602 355	64.4 63.7
		Jackson Magoffin	557 819	515	62.9
		Estill		523	62.3
		Green	840 215	133	61.9
		Washington	353	218	61.8
		Washington Leslie	875	530	60.6
		Edmonson	299	181	60.5
		Monroe	471	285	60.5
		Rockcastle	1,049	575	54.8
		Casey	817	444	54.3
		Powell	730	392	53.7
		Pendleton	411	213	51.8
		Todd	585	255	43.6
15,000 - 24,999	69.5	Mason	831	757	91.1
, = £4,,,,	0,.5	Breckinridge	437	371	84.9
		Montgomery	1,059	896	84.6
		Bourbon	1,144	958	83.7
		Dournou	728	604	83.0

TABLE 25. DUI ARREST CONVICTION RATES BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER) (1985-1986 & 1988-1990) (continued)

DODUTT & MTON	AVERAGE		mama w		
POPULATION	CONVICTION	COLLINA	TOTAL	TOTAL	CONVICTION
CATEGORY	PERCENTAGE	COUNTY	ARRESTS	CONVICTIONS	PERCENTAGE
15,000 - 24,999	69.5	Johnson	1,084	896	82.7
(cont.)		Union	960	791	82.4
		Mercer Lincoln	992	806	81.3
		Wayne	825	668	81.0
		Ohio	435 715	352 563	80.9
		Woodford		953	78.7
		Simpson	1,226 611	470	77.7
		Rowan	2,067		76.9
		Harrison	427	1,588 323	76.8 75.6
		Logan	1,639	1,183	72.2
		Carter	1,255	861	68.6
		Scott	1,445	990	68.5
		McCreary		728	64.9
		-	1,121		
		Shelby	1,795	1,156	64.4
		Taylor	1,129	727	64.4
		Grant	1,293	818	63.3
		Adair	749	456	60.9
		Clay	2,008	1,137	56.6
		Meade	1,450	811	55.9
		Knott	1,088	604	55.5
		Marion	967	443	45.8
		Breathitt	1,175	399	34.0
25,000 - 50,000	67.3	Jessamine	1,140	968	84.9
		Calloway	1,191	976	81.9
		Boyle	745	605	81.2
		Laurel	3,138	2,514	80.1
		Henderson	2,615	2,015	77.1
		Graves	1,166	895	76.8
		Hopkins	2,534	1,876	74.0
		Muhlenberg	1,481	1,095	73.9
		Floyd	3,839	2,802	73.0
		Knox	2,165	1,579	72.9
		Barren	1,751	1,245	71.1
		Pulaski	2,240	1,561	69.7
		Nelson	1,537	1,069	69.6
		Bell	2,599	1,792	68.9
		Clark	2,497	1,636	65.5
·		Franklin	3,527	2,264	64.2
		Letcher	1,424	883	62.0
		Greenup	2,446	1,497	61.2
		Oldham	1,384	828	59.8
		Perry	3,251	1,932	59.4
		Whitley	1,758	1,044	59.4
		Harlan	3,223	1,870	58.0
		Bullitt	2,759	1,405	50.9
		Marshall	1,805	811	44.9
VER 50,000	69.4	Fayette	11,325	10,004	88.3
	•	Daviess	4,830	3,870	80.1
		Jefferson	38,331	27,855	72.7
		McCracken	5,501	3,882	70.6
		Boyd	2,577	1,737	67.4
		Campbell	3,403	2,268	66.6
		Warren	7,202	4,763	66.1
		Madison	5,221	3,434	65.8
		Christian	4,408	2,649	60.1
		Kenton	8,467	4,917	58.1
		Pike	5,580	3,159	56.6
		Boone	3,814	2,099	55.0
		KOONE			

TABLE 26. SUMMARY OF RECKLESS DRIVING CONVICTIONS BY COUNTY (1986-1990 DATA)

TABLE 20. SUPPART C	3117		ONVICTIONS			TOTAL RECKLESS DRIVING	ANNUAL AVERAGE RECKLESS DRIVING CONVICTIONS
	RECKLESS 1986	DRIVING C	ONVICTIONS 1988		AR YEAR 1990	CONVICTIONS	PER 1,000
COUNTY	1586	32	43	1989 46	43	(FIVE YEARS)	LICENSED DRIVERS 3.8
Allen	39	22	26	24	26	137	3.0
Anderson	17	29	26	35	18	125	2.6
Ballard	15	10	7	9	20	61	2.0
Barren	74	76	60	90	81	381	3.4
Bath Bell	10 40	11 27	5 15	14 19	17 12	57 113	1.8 1.3
Boone	324	341	328	262	261	1,516	8.1
Bourbon	54	62	44	40	76	276	4.4
Boyd	76	79	65	89	86	395	2.2
Boyle	23	18	17	21	39	118	1.4
Bracken	23	10	18	11	15	77	3.1
Breathitt	32	17	15	18	29	111	2.6
Breckinridge	19 128	9 122	5 79	15 74	18 80	66 483	1.2 3.1
Bullitt Butler	128	7	17	10	8	54	1.5
Caldwell	30	21	30	15	35	131	2.9
Calloway	23	49	45	33	61	211	2.2
Campbell	170	146	193	190	197	896	3.4
Carlisle	0	7	3	11	10	31	1.6
Carroll	7	8	16	17	24	72	2.3
Carter	21	26	24	14	33	118	1.6
Casey	18	12	17	13	30	90 671	2.0 4.2
Christian Clark	179 32	124 22	136 42	112 15	120 19	130	1.3
Clay	23	22	73	56	58	232	4.0
Clinton	4	34	33	25	41	137	4.6
Crittenden	20	13	9	. 9	14	65	2.1
Cumberland	25	20	17	17	31	110	4.9
Daviess	92	101	99	99	114	505	1.7
Edmonson	15	11	8	17	14	65 53	1.9 2.8
Elliott Estill	6 18	4 29	17 18	7 16	19 18	99	2.2
Fayette	309	398	480	525	589	2,301	3.1
Fleming	24	19	23	21	33	120	3.0
Floyd	70	58	76	130	106	440	3.4
Franklin	110	123	108	154	167	662	4.5
Fulton	8	11	4	8	6	37	1.4
Gallatin	7 33	7 41	14 34	14 25	21 13	63 146	3.6 3.9
Garrard Grant	24	13	24	19	20	100	1.9
Graves	7	45	52	67	58	229	2.0
Grayson	22	25	40	29	30	146	2.1
Green	15	12	21	16	23	87	2.5
Greenup	85	51	58	83	69	346	2.8
Hancock	3	7	3	4	1	18	0.7
Hardin	135	116	224	171	163 150	809 896	3.2 8.0
Harlan Harrison	179 22	244 27	161 28	162 34	29	140	2.6
Hart	10	21	11	19	10	71	1.4
Henderson	89	78	77	52	56	352	2.4
Henry	8	13	7	11	4	43	1.0
Hickman	8	3	5	5	5	26	1.3
Hopkins	99	146	113	99	147	604	3.9
Jackson	7	12	7	6	13	45	1.3 4.5
Jefferson 	2,418	1,871 50	1,758	1,899	2,069 47	10,015 211	2.2
Jessamine Johnson	39 71	25	44 43	31 24	51	214	2.9
Johnson Kenton	320	345	441	473	427	2,006	4.5
Knott	44	42	43	14	27	170	3.6
Knox	52	50	60	59	100	321	4.2
Larue	15	25	23	22	24	109	2.7
Laurel	79	101	87	79	78	424	3.3
Lawrence	36	22	26	33	24	141 85	3.5 4.0
Lee Tealie	6 24	6 11	25 17	20 28	28 23	103	2.7
Leslie Letcher	42	53	17 29	28 29	44	197	2.4
Letener Lewis	25	17	14	16	26	98	2.4
							3.1

TABLE 26. SUMMARY OF RECKLESS DRIVING CONVICTIONS BY COUNTY (1986-1990 DATA) (continued)

		****				TOTAL	ANNUAL AVERAGE
						RECKLESS	RECKLESS DRIVING
						DRIVING	CONVICTIONS
	RECKLESS	DRIVING CO	ONVICTIONS			CONVICTIONS	PER 1,000
COUNTY	1986	1987	1988	1989	1990	(FIVE YEARS)	LICENSED DRIVERS
Livingston	7 65	16	17	14	22	76	2.3
Logan	5	67 2	49	50	93	324	4.0
Lyon	178	168	1	5	13	26	1.2
McCracken	30		157	164	144	811	3.6
McCreary	23	14 21	39	25	44	152	3.4
McLean Madison	23 92	96	15	11	14	84	2.4
	24	17	81	91	73	433	2.6
Magoffin	24 117	17 79	44	11	19	115	3.1
Marion	117	21	110	81	78	465	8.7
Marshall	32	20	23	30	24	117	1.2
Martin	31	20 15	40	22	32	146	3.7
Mason	17	15 25	30	26	45	147	2.7
Meade		23	34	44	71	191	3.2
Menifee Mercer	4 31	2 32	1 31	7	6	20	1.2
		32 14		30	59	183	2.8
Metcalfe	14 23	42	32	15	22	97	3.3
Monroe			36	27	41	169	4.4
Montgomery	31	54	34	29	27	175	2.7
Morgan	4	7	10	7	15	43	1.3
Muhlenberg	34	51	42	53	67	247	2.3
Nelson	59	54	104	64	64	345	3.5
Nicholas	16	12	21	24	20	93	4.0
Ohio	41	43	36	37	26	183	2.6
Oldham	15	17	25	16	10	83	0.8
Owen	7	4	13	7	9	40	1.5
Owsley	8	10	6	3	6	33	2.1
Pendleton	16	18	18	39	24	115	3.0
Perry	108	64	112	98	91	473	5.1
Pike	232	209	212	173	259	1,085	4.9
Powell	17	13	9	9	9	57	1.6
Pulaski	57	72	61	100	186	476	3.1
Robertson	5	6	5	10	6	32	4.4
Rockcastle	43	44	28	31	27	173	3.8
Rowan	72	58	84	62	49	325	6.1
Russell	20	19	32	37	31	139	2.9
Scott	89	80	72	76	73	390	5.1
Shelby	71	56	41	39	35	242	3.0
Simpson	31	24	23	12	14	104	2.1
Spencer	18	33	14	16	12	93	3.9
Taylor	62	80	101	121	103	467	6.6
Todd	15	21	20	20	17	93	2.6
Trigg	17	12	15	22	20	86	2.4
Trimble	0	2	4	4	1	11	0.5
Union	19	31	33	19	41	143	2.3
Warren	148	150	230	227	226	981	4.0
Washington	32	30	20	27	18	127	3.6
Wayne	27	18	22	27	26	120	2.3
Webster	10	14	21	8	29	82	1.7
Whitley	47	45	51	38	41	222	2.1
Wolfe	19	11	8	6	11	55	2.7
Woodford	39	42	58	71	71	281	4.2
TOTAL	8,214	7,688	8,101	8,047	8,850	40,900	3.5

TABLE 27. PERCENTAGE OF ACCIDENTS INVOLVING DRUGS BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)

	NUMBER OF DRUG-RELATED	PERCENT OF TOTAL ACCIDENTS		NUMBER OF	PERCENT OF
	ACCIDENTS	INVOLVING		DRUG-RELATED	TOTAL ACCIDENTS
COUNTY	(1986-1990)	DRUGS	COUNTY	ACCIDENTS (1986-1990)	INVOLVING
	CATEGORY UNDER 10,00			CATEGORY 15,000-2	DRUGS
Robertson	2	2.1	Clay	70	2.7
Owsley	4	0.8	Mercer	22	0.6
Hickman	3	0.7	Rowan	24	0.5
Lee	4	0.6	Johnson	1.4	0.4
Carlisle	2	0.6	Union	8	0.3
Crittenden	7	0.5	Breathitt	6	0.3
Clinton	5 2	0.4	Bourbon	11	0.3
Elliott Fulton	6	0.4 0.4	Woodford	11 4	0.3
ruiton Livingston	4	0.4	Knott Adair	6	0.3 0.2
Cumberland	2	0.3	Ohio	7	0.2
Owen	4	0.3	Shelby	12	0.2
Bath	5	0.3	McCreary	2	0.2
Lyon	2	0.3	Taylor	8	0.2
Carroll	. 5	0.2	Scott	11	0.2
Nicholas	1	0.2	Harrison	6	0.2
Spencer	1	0.2	Mason	9	0.2
Trimble	1	0.1	Simpson	6	0.2
Bracken	1	0.1	Meade	5	0.2
Gallatin	1	0.1	Logan	7	0.2
Metcalfe	1	0.1	Marion	5	0.2
Ballard	1	0.1	Montgomery	7	0.2
Wolfe	1	0.1	Lincoln	4	0.2
Hancock McLean	0	0.0	Carter	4 · 4	0.1 0.1
McLean Menifee	0	0.0 0.0	Grayson Grant	3	0.1
-KHIIICC	J	0.0	Breckinridge	í	0.1
POPULATION C	CATEGORY 10,000-14,9	99	Wayne	i	0.0
Casey	5	0.6		ATEGORY 25,000-50	
Russell	11	0.6	Knox	35	0.9
Leslie	5	0.6	Bell	32	0.6
Allen	15	0.5	Laurel	42	0.6
Martin	7	0.5	Harlan	24	0.5
Magoffin	5	0.4	Letcher	11	0.4
Trigg	7	0.4	Floyd	24	0.4
Henry	8	0.4	Whitley	19	0.4
Morgan	4	0.3	Clark	21	0.3
Jackson	3 6	0.3	Oldham	15	0.3
Hart	5 5	0.3	Perry	18 15	0.3
Fleming Webster	6	0.3 0.3	Calloway Barren	17	0.3
Mebster Butler	5	0.3	Greenup	12	0.2
Caldwell	6	0.3	Pulaski	20	0.2
Edmonson	3	0.2	Franklin	22	0.2
Powell	4	0.2	Graves	13	0.2
Green	3	0.2	Muhlenberg	9	0.2
Rockcastle	5	0.2	Nelson	9	0.2
Estill	4	0.2	Marshall	6	0.1
Lawrence	3	0.2	Jessamine	8	0.1
Lewis	3	0.2	Boyle	8	0.1
underson	4	0.2	Hopkins	15	0.1
Sarrard	2	0.2	Henderson	16	0.1
arue	2	0.1	Bullitt	7	0.1
Pendleton	2	0.1		ATEGORY OVER 50,0	
lonroe	1	0.1	McCracken	72 112	0.4
Mashington	1	0.1	Kenton	67	0.3
odd	U	0.0	Daviess	37	0.3
			Pike Campbell	46	0.3
			Warren	55	0.3
			Boyd	30	0.2
			воуц Fayette	148	0.2
			Christian	24	0.2
			Boone	31	0.2
			Madison	25	0.2
			Jefferson	197	0.1
			Hardin	17	0.1

TABLE 28. PERCENTAGE OF ACCIDENTS INVOLVING DRUGS BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES

(IN ORDER OF DECREASI	HG PERCENTAGE	=======================================		=======================================
	ERCENTAGE		JMBER OF	PERCENTAGE
	ACCIDENTS		-RELATED	OF ACCIDENTS
	INVOLVING		CCIDENTS	INVOLVING
CITY (1986-1990)	DRUGS	· ·	36-1990)	DRUGS
		POPULATION CATE	10PV 2 500-4	
POPULATION CATEGORY OVER 200,	0.2	Cumberland	5	0.9
Lexington 148	0.1	Barbourville		0.8
Louisville 103 POPULATION CATEGORY 20,000-55		Marion	5	0.6
Paducah 49	0.4	Fulton	5	0.6
Covington 56	0.4	Prestonsburg	8 5 5 11	0.6
Owensboro 48	0.3	Park Hills	253272121113333111210	0.5
Hopkinsville 18	0.2	Harlan	5	0.4 0.4
Bowling Green 35	0.2	Beaver Dam	3	0.4
Ashland 20	0.2	Lakeside Park	2	0.4
Richmond 13	0.2	Scottsville Providence	ź	0.3
Frankfort 10	0.1 0.1	Hickman	ī	0.3
Henderson 12	0.1	Lancaster	$\bar{2}$	0.3
Jeffersontown 4 POPULATION CATEGORY 10,000-19	999	Jenkins	ī	0.3
	0.6	Vine Grove	1	0.3
Middiebaele	0.4	Ludlow	1	0.2
Newport 20 Fort Thomas 7	0.4	Central City	3	0.2
Winchester 13	0.3	Leitchfield	3	0.2
Florence 17	0.2	Russell	3	0.2
Independence 3	0.2	Paintsville	3	0.2
Erlanger 10	0.2	Lagrange	1	0.1 0.1
Murray 8 Georgetown 7	0.2	Flemingsburg	1	0.1
Georgetown 7	0.2	Highland Heights	5	0.1
Somerset 11	0.2 0.2	Columbia Irvine	í	0.1
Glasgow	0.1	Dawson Springs	ō	0.0
Shively 4 Madisonville 7	0.1	Carrollton	0	0.0
Nicholasville 3	0.1	Greenville	Õ	0.0
Danville 4	0.1	Grayson	Ō	0.0
Glasgow 9 Shively 4 Madisonville 7 Nicholasville 3 Danville 4 Radcliff 5 Elizabethtown 3	0.1	Williamstown	Ó	0.0
	0.0	Graymoor	0	0.0
Saint Matthews 0	0.0	Shepherdsville	o	0.0
POPULATION CATEGORY 5,000-9,9	199	Cold Spring Springfield	Ö	0.0
Fort Wright 16	0.8 0.5	Oak Grove	ŏ	0.0
London 15 Mount Washington 3	0.4	Tompkinsville	0	0.0
Mount Washington 3 Corbin 12	0.4	Wilmore	Ö	0.0
Williamsburg 5	0.4	Stanton	Ö	0.0
Williamsburg 5 Morehead 9 Bellevue 5 Harrodsburg 8	0.4	Morganfield	0	0.0
Bellevue 5	0.4	Hodgenville	0 0	0.0
	0.4	Benton	0	0.0
Campbellsville 7	0.3	Stanford	ŏ	0.0
Villa Hills 1 Franklin 5	0.3 0.3	Southgate Mount Vernon	ŏ	0.0
	0.3	Crestview Hills	Ŏ	0.0
Versailles 7 Princeton 4	0.3	Hartford	0	0.0
Taylor Mill 2	0.3	Calvert City	0	0.0
Pikeville 4	0.2	,		
Pikeville 4 Maysville 5 Flatwoods 2	0.2			
Flatwoods 2	0.2			
Mount Sterling 5	0.2			
Hazard 4 Paris 5	0.2 0.2			
Paris 5	0.2			
Cynthiana 3	0.1			
Russellville 2 Bardstown 3	0.1	·		
Elsmere 1	0.1			
Fort Mitchell 2	0.1			
Lawrenceburg 1	0.1			
Berea 2	0.1			
Lebanon 2	0.1			
Alexandria	0.1			
Cynthiana 3 Russellville 2 Bardstown 3 Elsmere 1 Fort Mitchell 2 Lawrenceburg 1 Berea 2 Lebanon 2 Alexandria 1 Edgewood 1 Mayfield 5 Shelbyville 1	0.1 0.1			
Mayfield 5	0.0			
DIICENTIFE	0.0			
Dayton 0 Monticello 0	0.0			
Lyndon 0	0.0			
Middletown 0	0.0			

TABLE 29. SAFETY BELT USAGE (DRIVERS OF PASSENGER CARS IN VOLVED IN ACCIDENTS BY COUNTY AND POPULATION CATEGORY (IN DESCENDING ORDER)(1986-1990)

BY	COUNTY AND	D POPULATION	CATEGORY	(IN DESCENDING =========	ORDER)(L986-1990) ========	:=======
	==========	PERCENT				PERCENT	
		SEAT BELT				SEAT BELT	
COUNTY		USAGE		COUNTY		USAGE	
	CAMECORY I	USAGE UNDER 10,000 37.1 32.3		POPULATION	CATEGORY	15,000-24,	999
POPULATION Trimble	CATEGORI	37.1		Scott		37.2	
Lyon		32.3		Grant		35.7	
Ballard		3017		,,		32.8	
Owen		29.5		Meade		30.8 30.0	
Gallatin		29.4		Shelby Simpson		25.7	
Hancock		26.7 24.2	*	Bourbon		22.9	
Carroll Nicholas		23.5	••	Knott		22.6	
Wolfe		23.1		Rowan		21.3	
Spencer		22.8		Mason		21.3	
McLean		22.2		Johnson		20.5 19.1	
Hickman		19.7		Ohio		19.1	
Carlisle		19.6		Grayson Mercer		18.5	
Robertson		17.1 16.9		Lincoln		18.3	
Bath		16.2	*	Logan		18.1	
Bracken Lee		15.8		McCreary		17.3	
Fulton		15.5		Breckinridge		17.1	*
Metcalfe		15.5	*	Harrison		16.4	*
Livingston		15.3		Breathitt		15.1 15.0	•
Menifee		15.3		Union		14.9	
Elliott		14.4		Marion Carter		12.5	
Crittenden		8.4		Clay		12.2	*
Cumberland Clinton		8.2	*	Adair		12.0	
Owelev		8.1		Montgomery		11.3	
POPULATION	CATEGORY	10,000-14,99	9	Wayne		9.6 8.8	
Hart		30.9		Taylor POPULATION	CATEGORY		.000
Rockcastle		29.9 26.3		Oldham	CHILOUNI	39.6	,
Henry		25.9		Jessamine		33.6	
Trigg Washington		25.2		Franklin		30.9	
Magoffin		25.2 24.5		Greenup		27.4	
Anderson		23.1	*	Floyd		26.2 26.0	
Pendleton		23.0		Bullitt Nelson		25.5	
Webster		22.3 21.6		Nerson Pulaski		25.2	
Powell		21.5		Henderson		24.7	
Todd Morgan		20.8		Clark		23.8	*
Garrard		20.0		Bell		23.7 23.3	*
Edmonson		19.6		Hopkins		22.7	
Lawrence		19.1		Whitley Letcher		22.0	
Leslie		17.7 17.6		Laurel		21.8	
Russell Caldwell		16.4		Boyle		21.6	
Butler		15.4		Harlan		20.8	
Martin		15.3		Marshall		20.0 19.7	
Allen		15.2		Barren		18.6	
Casey		15.1		Perry Muhlenberg		17.6	*
Larue		14.4 13.7		Graves		15.9	
Lewis Fleming		13.1		Calloway		15.4	
Jackson		9.6		Knox		15.3	00
Estill		9.5		POPULATION	CATEGORY	52.4	00
Monroe		7.9		Fayette		43.8	
Green		7.9		Jefferson Warren		40.8	
				Boone		40.3	
				Campbell		38.5	
				Hardin		37.1	
				Kenton		36.5 31.2	
				Madison		28.9	
				Christian		26.8	*
				Boyd McCracken		26.6	
				Daviess		23.2	*
				Pike		23.0	*

^{*} Counties with potential for intensive promotional campaigns. Selected based on safety belt usage, accident rate, and location in states.

TABLE 30. CHANGE IN SAFETY BELT USAGE FOR 1986-1990 (PASSENGER CAR DRIVERS INVOLVED IN ACCIDENTS) BY POPULATION CATEGORY

PERCENT USAGE POPULATION CATEGORY OVER UNDER 10,000- 15,000- 25,000- OVER 10,000- 14,999- 24,999- 50,000 50,000 25,000-YEAR
 12.0
 10.5
 10.4
 13.6
 24.2

 16.5
 16.0
 15.8
 19.5
 34.4

 19.8
 19.7
 20.3
 24.1
 41.1

 23.3
 22.4
 24.8
 28.9
 46.6

 26.3
 25.3
 30.7
 34.5
 54.5
 12.0 10.5 16.5 16.0 19.3 1986 27.5 1987 33.2 1988 37.9 1989 44.6 1990 All 21.0 20.1 21.7 25.4 41.6 33.3

TABLE 31. ACCIDENT SEVERITY VERSUS SAFETY BELT USAGE (ALL DRIVERS)*

NOT WEARING WEARING SAFETY BELT SAFETY BELT PERCENT _____ NUMBER PERCENT NUMBER PERCENT REDUCTION TYPE OF INJURY Fatal 2,094 0.28 227 0.06
Incapacitating 23,340 3.12 6,247 1.69
Non-Incapacitating 40,415 5.40 13,798 3.73
Possible Injury 43,543 5.82 19,756 5.34
Fatal or Incapacitating 25,434 3.46 6,474 1.75 227 0.06 78** 46** 31** 8** 49**

^{*} Based on 1986 through 1990 accident data. Total sample size for not wearing a safety belt was 747,911 compared to 370,268 for wearing a safety belt ** Statistically significant reduction (probability of 0.99).

TABLE 32. CHANGE IN SEVERITY OF INJURIES BY YEAR (1986-1990 DATA)

		PERCENTAGE	DRIVERS SUSTAINI	NG A GIVEN IN	JURY
Type of Injury	1986	1987	1988	1989	1990
		NOT WEARIN	G SAFETY BELT		
Fatal	0.25	0.28	0.27	0.28	0.28
Incapacitating	2.66	3.05	3.21	3.37	3.13
Non-Incapacitating	4.86	5.20	5.52	5.62	5.41
Possible Injury	5.04	5.71	5.81	6.07	5.83
		WEARING	SAFETY BELT		
Fatal	0.06	0.04	0.07	0.06	0.06
Incapacitating	1.73	1.69	1.68	1.69	1.69
Non-Incapacitating	3.60	3.63	3.68	3.74	3.73
Possible Injury	5.01	5.05	5.30	5.43	5.35

TABLE 33. POTENTIAL ANNUAL REDUCTION IN TRAFFIC ACCIDENT FATALITIES AND ACCIDENT SAVINGS FROM INCREASE IN DRIVER SAFETY BELT USAGE*

DRIVER	POTENTI.	AL ANNUAL	ANNUAL ACCID	ENT SAVING (M)	LLION \$)
USAGE	REDUCTION	IN NUMBER OF	FRC	M REDUCTION IN	ī
RATE		SERIOUS		SERIOUS	-
(PERCENT)	FATALITIES	INJURIES**	FATALITIES	INJURIES	TOTAL
40	38	249	57.0	9.7	66.7
50	86	569	129.0	22.2	151.2
60	134	888	201.0	34.6	235.6
70	183	1,208	274.5	47.1	321.6
80	231	1,527	346.5	59.6	406.1
90	279	1,847	418.5	72.0	490.5
100	328	2,166	492.0	84.5	576.5

^{*} Based on increase from the 32.2 usage rate determined in the 1990 survey, the percent reductions listed in Table 15, and accident cost estimates recommended by the Federal Highway Administration (11). These costs are \$1,500,000 for a fatality and \$39,000 for an incapacitating injury.

^{**} Serious injuries were defined as those listed as incapacitating on the accident report.

TABLE 34. USAGE AND EFFECTIVENESS OF CHILD SAFETY SEATS (1986-1990) ACCIDENT DATA FOR CHILDREN (AGE THREE AND UNDER)

			RESTRAINT US	ED	
			SAFETY BELT	CHILD	ANY
VARIABLE	CATEGORY	NONE	OR OTHER	SAFETY SEAT	RESTRAINT
Number With	Fatal	27 477	6	8	14
with Given	Incapacitating Non-Incapacitating		93	87	180
Given Injury	Possible Injury	1,311	346 568	484 696	830
Injury	None Detected	1,770 21,036	10,933	14,933	1,264 25,866
					·
Percent	Fatal	0.11	0.05	0.05	0.05
With	Incapacitating	1.94	0.78	0.54	0.64
Given	Non-Incapacitating	5.32	2.90	2.99	2.95
Injury	Possible Injury None Detected	7.19 85.44	4.75 91.52	4.29 92.13	4.49 91.87
Percent	Middle Front	62.2	16.6	21.2	37.8
Usage	Right Front	53.9	26.6	19.5	46.1
By Seat	Left Rear	32.6	24.0	43.5	67.4
Position	Middle Rear	40.4	16.8	42.7	59.6
	Right Rear All Positions	29.5 46.7	23.1 22.6	47.3 30.7	70.5 53.3
_					
Percent					
With Given					
Injury					
By Seat		•			
Position	Fatal	0.00	2.26	0.05	0.05
(Middle Front)	Incapacitating	0.08	0.06 1.00	0.65	0.80
FIOIL	Non-Incapacitating	1.87 5.74	4.18	3.00	3.52
	Possible Injury	7.73	5.18	5.08	5.12
	None Detected	84.58	89.59	91.22	90.50
(Right	Fatal	0.15	0.04	0.05	0.04
Front)	Incapacitating	2.25	1.04	0.54	0.83
,	Non-Incapacitating	5.61	3.31	3.36	3.33
	Possible Injury	8.17	5.50	5.09	5.32
	None Detected	83.82	90.12	90.97	90.48
Left	Fatal	0.04	0.05	0.06	0.06
Rear)	Incapacitating	1.89	0.54	0.38	0.44
.tour /	Non-Incapacitating	4.06	2.57	2.83	2.74
	Possible Injury	5.36	3.32	4.37	4.00
	None Detected	88.66	93.52	92.35	92.77
Middle	Fatal	0.13	0.11	0.04	0.06
Rear)	Incapacitating	1.49	0.32	0.54	0.48
	Non-Incapacitating	5.09	0.74	2.45	1.96
	Possible Injury	5.79	3.79	3.40	3.51
	None Detected	87.49	95.05	93.57	93.99
Right	Fatal	0.07	0.05	0.05	0.05
Rear)	Incapacitating	1.28	0.37	0.59	0.52
Moul ,	Non-Incapacitating	4.62	2.10	3.06	2.75
	Possible Injury	4.95	4.26	3.64	3.84
	None Detected	89.07	93.22	92.66	92.84
EAR	1986	4,274	1,252	2,381	3,633
W	1987	6,000	2,096	2,572	4,668
	1988	5,000	2,398	3,089	5,487
	1989	4,849	2,944	3,873	6,817
		11023	~1 ~ ~ ~ ~	4,293	7,549

TABLE 35. PERCENTAGE OF ACCIDENTS INVOLVING UNSAFE SPEED BY COUNTY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)

	NUMBER OF	PERCENT OF		NUMBER OF	PERCENT OF
	SPEED-RELATED	TOTAL ACCIDENTS		SPEED-RELATED	TOTAL ACCIDENTS
	ACCIDENTS	INVOLVING		ACCIDENTS	INVOLVING
COUNTY	(1986-1990)	SPEEDING	COUNTY	(1986-1990)	SPEEDING
	CATEGORY UNDER	•		CATEGORY 15,000	•
Robertson	21	21.9	McCreary	187	20.3
Spencer	118	18.2	Grant	584	16.7
Gallatin	176 114	17.4	Carter	465	14.0
Lyon	69	16.6 15.9	Clay	355 317	13.9
Menifee	78	15.9	Lincoln Knott	207	13.1 13.1
Owsley Carlisle	55	15.4	Breathitt	280	13.1
Ballard	156	14.4	Woodford	534	12.3
Battaru Bath	224	14.3	Shelby	624	11.7
lliott	66	13.6	Rowan	517	11.6
olfe	150	13.5	Bourbon	480	11.6
rimble	104	13.5	Ohio	327	10.8
icLean	144	12.9	Meade	299	10.5
lickman	55	12.5	Marion	298	10.2
Carroll	273	12.1	Mercer	357	9.7
Metcalfe	128	12.1	Wayne	215	9.5
)wen	129	10.9	Union	235	9.2
Lee	73	10.5	Johnson	277	8.8
Bracken	102	10.3	Harrison	204	6.7
Vicholas	53	9.7	Scott	363	6.6
ivingston	96	8.9	Breckinridge	116	6.5
lancock	78	8.5	Adair	145	6.0
Cumberland	35	6.1	Logan	226	5,6
rittenden	73	5.4	Grayson	180	5.2
ulton	79	5.0	Taylor	184	5.0
linton	56	4.7	Simpson	158	4.9
			Montgomery	190	4.6
POPULATION	CATEGORY 10,000	1-14,999	Mason	199	4.3
eslie	243	27.4	POPULATION	CATEGORY 25,000	-50,000
Magoffin	257	19.6	Floyd	1,032	15.3
lenry	439	19.2	Whitley	783	14.6
asey	150	18.7	Knox	594	14.5
'odd	198	17.0	Letcher	383	13.3
lockcastle	391	17.0	Harlan	662	13.0
dmonson	211	16.9	Muhlenberg	630	11.6
lartin	217	16.4	Laurel	749	10.5
lorgan	173	15.0	Bell	504	10.0
arrard	198	14.9	Oldham	449	9.5
ewis	229	13.8	Clark	593	9.4
owell	215	12.8	Franklin	952	9.4
Tackson	112	12.1	Hopkins	941	9.0
tussell	192	10.2	Marshall	362	9.0
underson	246	10.1	Bullitt	532	8.4
awrence	151	9.9	Perry	473	8.3
llen	261	9.5	Jessamine	444	8.1
arue	158	9.4	Calloway	414	8.1
ashington	123	9.4	Greenup	403	8.0
onroe	89	8.9	Nelson	440	7.8
aldwell	199	8.7	Pulaski	677	7.7
leming	136	7.9	Graves	458	7.5
endleton	131	7.6	Boyle	358	6.5
utler	137	7.4	Henderson	657	5.8
still	139	7.3	Barren	258	3.8
rigg	127	6.8		CATEGORY OVER 5	14.6
ebster	141	6.4	Pike	1,748	
art	111	5.6	Madison	1,596	11.6 9.5
reen	43	3.1	Christian	1,079	8.6
			Boone	1,422	7.2
			Warren	1,576	
			Hardin	1,085	6.8
			Boyd	760	6.2
			Campbell	1,013	6.1
			Kenton	1,903	5.8
			Daviess	1,026	5.1
			McCracken	768	4.7
			Jefferson	7,044	
			Fayette	2,355	3.7

TABLE 36. PERCENTAGE OF ACCIDENTS INVOLVING UNSAFE SPEED BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1986-1990 DATA)

CATEGO	ORY (II	N ORDER OF DECREASING	PERCENTAGES) (190	:======	
	=====	ACCIDENT RATE			MCCIDENT MITH
NUMBER		(ACCIDENTS PER		MBER OF CIDENTS	(ACCIDENTS PER 10,000 POPULATION)
CITY ACCIDE	ents	10,000 POPULATION)			
POPULATION CAS	PEGORY	OVER 200.000	POPULATION C	CATEGORY	2,500-4,999
Lexington 2	2281	3.6	Hartford	28	29.2 12.1
Louiguille	3042	3.3	Lakeside Park	57 44	11.4
POPULATION CAS	regory	20,000-55,000	Vine Grove Cumberland	54	10.2
Hopkinsville Frankfort	520 370	5.1	Jenkins	21	7.2
Richmond	368	4.8	Park Hills	27 38	7.0 6.3
Jeffersontown	212	4.5 4.2	Southgate Barbourville	58	5.6
Covington	628 341	4.2	Carrollton	52	5.1
Ashland Henderson	321	3.8	Williamstown	30	5.1 5.0
Bowling Green	627	3.7	Shepherdsville Scottsville	∍ 90 78	4.9
Paducah	402 362	3.4 2.4	Lancaster	33	4.6
Owensboro	TEGORY	10,000-19,999	Fulton	40	4.5
Fort Thomas	129	7.8	Wilmore	8 37	4.4 4.3
Independence	111	6.3	Morganfield Highland Heigh		4.3
Newport	311	5.5 4.9	Springfield	32	4.3
Florence Erlanger	468 198	4.7	Stanton	25	4.1
Murray	164	4.6	Tompkinsville	29 s 20	4.0 4.0
Middlesboro	122	4.5	Dawson Spring Flemingsburg	B 20 27	3.9
Madisonville	276 128	4.4 4.3	Providence	28	3.9
Georgetown Somerset	187	3.9	Greenville	41	3.9 3.8
Shively	203	3.6	Calvert City Stanford	12 28	3.6
Nicholasville	95 122	3.5 3.1	Columbia	49	3.4
Danville Elizabethtown	218	3.0	Russell	55	3.3 3.3
Radcliff	111	2.6	Central City Leitchfield	50 56	3.2
Winchester	102 82	2.5 2.0	Hickman	10	3.1
Glasgow Saint Matthews	106	1.8	Grayson	31	3.0 2.9
POPULATION CA	TEGORY	5,000-9,999	Lagrange	34 49	2.6
Villa Hills	42	10.9 10.4	Prestonsburg Benton	32	2.5
Taylor Mill Williamsburg	83 94	7.2	Beaver Dam	19	2.4
Elsmere	73	7.1	Paintsville	43 19	2.4 2.4
Fort Wright	137	6.9 5.5	Marion Harlan	31	2.2
Lebanon	100 120	5.4	Ludlow	12	2.0
Pikeville Lawrenceburg	64	5.2	Mount Vernon	11	1.8 1.8
Fort Mitchell	71	5.1	Cold Spring	20 13	1.5
Corbin	151 87	5.1 5.0	Irvine Hodgenville	3	0.5
Monticello Versailles	109	4.8			
Paris	114	4.7			
Princeton	66	4.6 4.5			
Mount Washingto Bellevue	n 33 53	4.5			
London	134	4.4			
Dayton	32	3.9			
Cynthiana	64 93	3.8 3.7			
Morehead Alexandria	43	3.7			
Berea	64	3.6			
Edgewood	40 77	3.4 3.3			
Shelbyville Harrodsburg	73	3.2			
Campbellsville	86	3.1			
Flatwoods	33	3.1 3.0			
Russellville	69 82	2.9			
Bardstown Mount Sterling	68	2.9			
Franklin	54	2.7			
Mayfield	73	2.1 1.7			
Hazard Maysville	39 55	1.7			
waysviite					

						moma r	ANNUAL AVERAGE	SPEEDING CONVICTIONS
						TOTAL SPEEDING S	PEEDING CONVICTIONS	PER SPEED-
	CORPOING	CONVICTO	ONS PER C	ALENDAR Y	/EAR	CONVICTIONS	PER 1,000	RELATED
COUNTY	1986	1987	1988	1989	1990	(FIVE YEARS)	LICENSED DRIVERS	ACCIDENT
Adair	356	372	353	262	280	1,623	34.5	11.2
Allen	147	117	158	97	96	615	13.3 88.4	2.4 17.4
Anderson	1,040	1,081	772	707	670	4,270 647	21.3	4.1
Ballard	189	104	76 999	59 933	219 900	5,350	47.5	20.7
Barren	1,225 222	1,293 135	132	98	114	701	22.5	3.1
Bath Bell	239	331	394	235	190	1,389	15.7	2.8
Boone	1,941	2,267	2,886	2,598	3,356	13,048	69.9	9.2
Bourbon	1,216	1,067	820	1,174	941	5,218	82.7	10.9
Boyd	2,137	1,870	1,738	1,836	968	8,549	48.4	11.2 5.2
Boyle	409	232	497	. 344	392	1,874	22.0 19.1	4.6
Bracken	44	74	94	104	155	471 523	12.2	1.9
Breathitt	232	68	72	81	70 166	525 956	17.6	8.2
Breckinridge	190	207	202	191 853	166 664	5,466	34.7	10.3
Bullitt	1,400	1,399 173	1,150 101	162	145	821	22.9	6.0
Butler	240 592	431	349	432	498	2,302	50.2	11.6
Caldwell	967	489	523	448	519	2,946	30.1	7.1
Calloway Campbell	2,517	2,353	2,229	2,241	2,454	11,794	44.4	11.6
Campbell	148	89	62	104	135	538	27.5	9.8
Carroll	766	446	288	300	528	2,328	74.6	8.5
Carter	1,126	488	111	158	168	2,051	27.5	4.4
Casey	133	170	179	114	51	647	14.5 57.4	8.4
Christian	1,853	1,672	1,725	1,865	1,964	9,079 4,436	44.6	7.5
Clark	1,222	1,021	885	621	687 91	688	11.8	1.9
Clay	274	152 110	121 52	50 39	83	407	13.7	7.3
Clinton	123 122	138	148	61	96	565	18.2	7.7
Crittenden Cumberland	161	115	135	96	142	649	29.1	18.5
Daviess	2,234	2,216	1,710	1,779	1,709	9,648	32.5	9.4
Edmonson	171	94	81	43	69	458	13.4	2.2 0.6
Elliott	4	15	5	7	8	39	2.0 10.7	3.5
Estill	98	83	98	128	80	487 40,034	54.5	17.0
Fayette	5,384	8,407	9,013	8,985	8,245 236	1,121	28.4	8.2
Fleming	225	206 495	239 435	215 321	174	1,956	15.1	1.9
Floyd	531 2,925	2,438	1,942	1,869	1,262	10,436	70.9	11.0
Franklin Fulton	110	77	46	56	50	339	12.4	4.3
Gallatin	280	442	251	145	241	1,359	77.6	7.7
Garrard	198	203	161	167	138	867	23.1	4.4 8.8
Grant	1,217	1,081	1,118	958	748	5,122	99.2 16.4	4.1
Graves	392	442	338	169	559	1,900	39.3	15.2
Grayson	729	614	763	429	197	2,732 345	9.8	8.0
Green	84	59	99 481	57 463	46 362	2,278	18.3	5.7
Greenup	534 206	438 144	123	128	181	782	28.5	10.0
Hancock	4,424	4,420	4,910	4,063	3,255	21,072	84.4	19.4
Hardin Harlan	310	288	201	143	178	1,120	10.0	1.7
Harrison	338	503	294	282	316	1,733	32.3	8.5 9.4
Hart	363	224	194	123	139	1,043	20.7 33.3	7.4
Henderson	1,235	1,116	1,096	635	806	4,888	81.0	8.1
Henry	1,015	930	643	500	479	3,567 363	18.3	6.6
Hickman	123	58	43	68	71	7,612	48.8	8.1
Hopkins	1,330	2,064	1,655 18	1,159 12	1,404 7	161	4.7	1.4
Jackson	68	56 8,756	7,082	2,282	3,176	30,381	13.6	4.3
Jefferson	9,085 440	372	891	980	1,019	3,702	39.2	8.3
Jessamine Johnson	512	272	275	239	262	1,560	21.5	5.6
Kenton	4,357	3,978	4,182	3,643	3,890	20,050	44.5	10.5
Knott	79	22	46	70	74	291	6.1	1.4 3.6
Knox	300	410	497	446	463	2,116	27.7 44.7	11.6
Larue	465	411	410	386	164	1,836	27./	****

TABLE 37. SUMMARY OF SPEEDING CONVICTIONS BY COUNTY (1986-1990 DATA) (continued)

						TOTAL	ANNUAL AVERAGE	SPEEDING CONVICTIONS
	SPEED	ING CONVI	CTIONS PE	R CALENDA	R YEAR	SPEEDING CONVICTIONS	SPEEDING CONVICTIONS PER 1,000	PER SPEED- RELATED
COUNTY	1986	1987	1988	1989	1990	(FIVE YEARS)	LICENSED DRIVERS	ACCIDENT
Laurel	817	729	898	950	754	4,148	32.0	5.5
Lawrence	448	285	246	290	176	1,445	36.1	9.6
Lee	26	25	75	28	25	179	8.3	2.5
Leslie Letcher	237 161	128 97	144 61	73 42	88 · 47	670 408	17.7	2.8
Levis	59	53	72	53	120	408 357	4.9 8.7	1.1 1.6
Lincoln	689	398	492	499	435	2,513	41.6	7.9
Livingston	245	185	140	260	277	1,107	34.1	11.5
Logan	508	267	226	248	587	1,836	22.8	8.1
Lyon	374	322	305	390	528	1,919	92.1	16.8
McCracken	1,537	1,219	1,562	1,572	1,587	7,477	33.4	9.7
McCreary	144	128	146	118	285	821	18.3	4.4
McLean	227	178	156	142	119	822	23.2	5.7
Madison	1,627 201	1,866	1,589	1,586	1,456	8,124	48.9	5.1
Magoffin Marion	588	103 345	283 441	171 270	110 254	868	23.8	3.4
Marshall	990	749	798	747	1,116	1,898 4,400	35.5 45.0	6.4
Martin	49	83	96	50	86	364	9.3	12.2 1.7
Mason	393	298	408	190	279	1,568	28.8	7.9
Meade	263	295	243	269	294	1,364	23.2	4.6
Menifee	68	20	35	7	7	137	8.1	2.0
Mercer	447	429	598	593	582	2,649	40.2	7.4
Metcalfe	652	567	374	443	396	2,432	82.1	19.0
Monroe	44	34	36	30	31	175	4.6	2.0
Montgomery	300	215	251	80	95	941	14.8	5.0
Morgan Muhlenberg	161 1,050	152 1,038	122 749	131 687	154 1,097	720 4,621	21.3 43.7	4.2
Nelson	1,381	1,273	1,157	670	770	5,251	53.5	7.3 11.9
Nicholas	71	145	102	161	253	732	31.6	13.8
Ohio	456	501	447	362	256	2,022	28.5	6.2
Oldham	1,615	1,589	1,443	1,337	1,248	7,232	70.9	16.1
Owen	34	64	80	66	78	322	11.9	2.5
Owsley	31	29	33	21	13	127	8.3	1.6
Pendleton	235	352	373	364	341	1,665	44.1	12.7
Perry Pike	657	282 871	242	158	159	1,498	16.2	3.2
Powell	1,062 1,337	343	841 187	530 101	520 109	3,824	17.1 57.6	2.2 9.7
Pulaski	1,108	936	992	945	1,079	2,077 5,060	32.5	7.5
Robertson	41	56	77	90	. 85	349	47.8	16.6
Rockcastle	334	255	308	361	846	2,104	46.7	5.4
Rowan	645	548	515	390	268	2,366	. 44.1	4.6
Russell	310	156	112	166	103	847	17.6	4.4
Scott	2,280	1,958	1,442	1,736	1,504	8,920	116.1	24.6
Shelby	2,708	2,059	1,380	921	730	7,798	95.1	12.5
Simpson	380 167	218 172	213	237	242	1,290	25.4	8.2
Spencer Taylor	358	345	154 464	171 592	195 772	859 2,531	36.3 35.7	7.3 13.8
Todd	182	121	134	71	248	756	21.5	3.8
Trigg	337	293	288	246	209	1,373	37.6	10.8
Trimble	35	40	54	33	61	223	10.8	2.1
Union	1,147	722	608	717	752	3,946	73.2	16.8
Warren	2,911	1,511	2,605	1,550	1,413	9,990	49.7	6.3
Washington	248	193	210	224	265	1,140	35.5	9.3
Wayne	98	114	120	149	186	667	14.3	3.1
Webster	167	202	176	118	130	793	18.2	5.6
Whitley Wolfe	358 201	195 246	223 305	188 366	245 369	1,209	13.7 73.2	1.5 9.9
Woodford	1,223	1,506	1,612	2,516	2,035	1,487 8,892	151.8	16.7
	-,	_,500	-,	-,510	21000	0,032	101.0	2007
TOTAL	95,419	87,301	84,034	72,689	73,219	412,662	35.1	7.7

DODING & MTON		ANNUAL AVERAGE SPEEDING CONVICTIONS PER 1,000		SPEEDING CONVICTIONS PER SPEED-RELATED
POPULATION CATEGORY	COUNTY	LICENSED DRIVERS	COUNTY	ACCIDENT
UNDER 10,000	Lyon	92.1	Metcalfe	19.0
	Metcalfe	82.1	Cumberland	18.5
	Gallatin	77.6	Lyon	16.8
	Carroll	74.6	Robertson	13.8
	Wolfe	73.2	Nicholas	11.5
	Robertson	47.8	Livingston Hancock	10.0
	Spencer	36.3 34.1	Wolfe	9.9
	Livingston	31.6	Carlisle	9.8
	Nicholas	29.1	Carroll	8.5
	Cumberland Hancock	28.5	Crittenden	7.7
	Hancock Carlisle	27.5	Gallatin	7.7
	McLean	23.2	Spencer	7.3
	McLean Bath	22.5	Clinton	7.3
	Ballard	21.3	Hickman	6.6
	Bracken	19.1	McLean	5.7
	Hickman	18.3	Bracken	4.6
	Crittenden	18.2	Fulton	4.3
	Clinton	13.7	Ballard	4.1
	Fulton	12.4	Bath	3.1
	Owen	11.9	Owen	2.5
	Trimble	10.8	Lee	2.5
	Lee	8.3	Trimble	2.1
	Owsley	8.3	Menifee	2.0
	Menifee	8.1	Owsley	1.6
	Elliott	2.0	Elliott	0.6
10,000 - 14,999	Scott	116.1	Scott	. 24.6 17.4
,	Anderson	88.4	Anderson	12.7
	Henry	81.0	Pendleton	11.6
	Powell	57.6	Larue	11.6
	Caldwell	50.2	Caldwell	10.8
	Rockcastle	46.7	Trigg	9.
	Larue	44.7	Powell Lawrence	9.0
	Pendleton	44.1	Hart	9
	Trigg	37.6	Washington	9.:
	Lawrence	36.1	Fleming	8.:
	Washington	35.5	Henry	8.:
	Fleming	28.4 23.8	Green	8.0
	Magoffin	23.1	Butler	6.0
	Garrard	22.9	Webster	5.0
	Butler	21.5	Rockcastle	5
	Todd	21.3	Russell	4.
	Morgan	20.7	Garrard	4
	Hart	18.2	Casey	4.:
	Webster	17.7	Morgan	4.
	Leslie Russell	17.6	Todd	3.
		14.5	Estill	3.
	Casey Edmonson	13.4	Magoffin	3.
	Allen	13.3	Leslie	2.
	Estill	10.7	Allen	2.
	Green	9.8	Edmonson	2.
	Martin	9.3	Monroe	2.
	Lewis	8.7	Martin	1.
	Jackson	4.7	Lewis	1.
	Monroe	4.6	Jackson	
15,000 - 24,999	Woodford	151.8	Union	16.
19,000 - 24,777	Grant	99.2	Woodford	16.
	Shelby	95.1	Grayson	15.
	Bourbon	82.7	Taylor	13.

TABLE 38. SPEEDING CONVICTION RATES IN DECREASING ORDER (BY COUNTY POPULATION CATEGORIES) (1986-1990) (continued)

		ANNUAL AVERAGE		
		SPEEDING CONVICTIONS		SPEEDING CONVICTIONS
POPULATION		PER 1,000		PER SPEED-RELATED
CATEGORY	COUNTY	LICENSED DRIVERS	COUNTY	ACCIDENT
15,000 - 24,999	Union	73.2	Shelby	12.5
(cont.)	Rowan	44.1	Adair	11.2
•	Lincoln	41.6	Bourbon	10.9
	Mercer	40.2	Grant	8.8
	Grayson	39.3	Harrison	8.5
	Taylor	35.7	Breckinridge	8.2
	Marion	35.5	Simpson	8.2
	Adair	34.5	Logan	8.1
	Harrison	32.3	Lincoln	7.9
	Mason	28.8	Mason	7.9
	Ohio	28.5	Mercer	7.4
	Carter	27.5	Marion	6.4
	Simpson	25.4	Ohio	6.2
	Meade	23.2	Johnson	5.6
	Logan	22.8	Montgomery	5.0
	Johnson	21.5	Rowan	4.6
	McCreary	18.3	Meade	4.6
	Breckinridge	17.6	Carter	4.4
	Montgomery	14.8	McCreary	4.4
		14.3	Wayne	3.1
	Wayne	12.2	Clay	1.9
	Breathitt	11.8	Breathitt	1.9
	Clay	6.1	Knott	1.4
	Knott	6.1	Knocc	217
25,000 - 50,000	Oldham	70.9	Barren	20.7
	Franklin	70.9	Oldham	16.1
	Nelson	53.5	Marshall	12.2
	Hopkins	48.8	Nelson	11.9
	Barren	47.5	Franklin	11.0
	Marshall	45.0	Bullitt	10.3
	Clark	44.6	Jessamine	8.3
	Muhlenberg	43.7	Hopkins	8.1
	Jessamine	39.2	Clark	7.5
	Bullitt	34.7	Pulaski	7.5
	Henderson	33.3	Henderson	7.4
	Pulaski	32.5	Muhlenberg	7.3
	Laurel	32.0	Calloway	7.1
	Calloway	30.1	Greenup	5.7
	Knox	27.7	Laurel	5.5
	Boyle	22.0	Boyle	5.2
	Greenup	18.3	Graves	4.1
	Graves	16.4	Knox	3.6
	Perry	16.2	Perry	3.2
	Bell	15.7	Bell	2.8
	Floyd	15.1	Floyd	1.9
	Whitley	13.7	Harlan	1.7
	Harlan	10.0	Whitley	1.5
	Letcher	4.9	Letcher	1.1
OVER 50,000	Hardin	84.4	Hardin	19.4
012K 35/005	Boone	69.9	Fayette	17.0
	Christian	57.4	Campbell	11.6
	Payette Payette	54.5	Boyd	11.2
	Warren	49.7	Kenton	10.5
	Madison	48.9	McCracken	9.7
	Boyd	48.4	Daviess	9.4
	Kenton	44.5	Boone	9.2
	Campbell	44.4	Christian	8.4
	McCracken	33.4	Warren	6.3
	Daviess	32.5	Madison	5.1
	Pike	17.1	Jefferson	4.3
	Jefferson	13.6	Pike	2.2

TABLE 39. SUMMARY OF SPEED MONITORING PROGRAM FOR 1990

NOWNER OF NOWN		ATTY	MBER OF	NUMBER OF
HIGHWAY TYPE MILES LOCATIONS MEASURED Urban Interstate 136 4 340,163 Urban Other Freeway 48 2 107,000 & Expressways Urban Arterials 385 8 56,937 Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854				
Urban Interstate 136 4 340,163 Urban Other Freeway 48 2 107,000 & Expressways Urban Arterials 385 8 56,937 Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854		M	ONITOR	VEHICLES
Urban Other Freeway 48 2 107,000 & Expressways Urban Arterials 385 8 56,937 Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854	HIGHWAY TYPE	MILES LO	CATIONS	MEASURED
& Expressways Urban Arterials 385 8 56,937 Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854	Urban Interstate	136	4	340,163
Urban Arterials 385 8 56,937 Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854	Urban Other Freeway	48	2	107,000
Rural Interstates * 580 6 138,048 Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854	& Expressways			
Rural Arterials 2,524 8 78,335 Rural Major Collector 7,034 7 7,854	Urban Arterials	385	8	56,937
Rural Major Collector 7,034 7 7,854	Rural Interstates *	580	6	138,048
Rulai Major Colfebbor	Rural Arterials	2,524	8	78,335
State Total ** 10,127 29 590,289	Rural Major Collector	7,034	7	7,854
	State Total **	10,127	29	590,289

				PE	PERCENT OF				
	AVERAGE	MEDIAN	85TH	MOTORISTS EXCEEDI					
	SPEED	SPEED	PERCENTILE	55	60	65			
HIGHWAY TYPE	(MPH)	(MPH)	SPEED (MPH)	MPH	MPH	MPH			
Urban Interstate	58.0	58.5	64.7	68.1	32.2	9.2			
Urban Other Freeway	56.4	56.8	63.6	55.0	23.1	7.4			
& Expressways									
Urban Arterials	52.5	53.7	62.0	38.1	17.2	6.3			
Rural Interstates *	62.8	63.5	70.3	88.4	64.9	35.6			
Rural Arterials	57.1	57.1	67.5	54.3	33.9	18.3			
Rural Major Collector	50.9	50.9	59.7	27.1	10.6	3.6			
State Total **	54.8	54.8	63.5	45.9	23.3	9.7			

^{* 65} mph speed zones.

TABLE 40. COMPLIANCE WITH 55-SPEED LIMIT (COMPARISON OF 1986 THROUGH 1990 DATA)

		85T	H PERCEN	TILE						
				SPEED						
HIGHWAY TYPE	1986	1987	1988	1989	1990	1986	1987	1988	1989	1990
Urban Interstate	55.8	51.0	59.4	59.0	58.5	63.8	60.6	65.8	65.2	64.7
Rural Interstate	57.1	*	63.5	62.8	63.5	64.8	*	70.3	70.1	70.3
State Total	54.3	*	53.6	55.2	54.8	62.9	*	60.8	62.2	63.5

PERCENT OF MOTORISTS

	EXCEEDING 55 MPH					
HIGHWAY TYPE	1986	1987	1988	1989	1990	
Urban Interstate	54.6	49.6	73.4	71.0	68.1	
Rural Interstate	62.1	*	87.4	84.6	88.4	
State Total **	48.3	36.6	39.9	46.8	45.9	

^{*} No annual summary for rural interstates was prepared in 1987 since the speed limit increased to 65 mph in June 1987.

^{**} This average is computed using weighted factors to reflect vehicle miles travelled. (Rural interstates were excluded from the State Total because all data were collected in 65 mph zones.)

^{**} This average is computed using weighted factors to reflect vehicle miles travelled. (Rural interstates were excluded after 1986 from the State Total because all data were collected in 65 mph zones.)

TABLE 41. ACCIDENT TREND ANALYSIS

					4-YEAR		1990
		NUMBER IN	GIVEN YEAR		AVERAGE		PERCENT
ACCIDENT STATISTIC	1986	1987	1988	1989	1986-89	1990	CHANGE*
Total Accidents	140,421	142,300	147,587	151,422	145,433	148,158	1.8
Fatal Accidents	726	773	719	690	727	758	4.1
Fatalities	808	849	840	776	818	851	3.8
Injury Accidents	31,019	33,163	34,164	35,504	33,463	35,670	6.2
Injuries	46,807	49,291	51,442	53,383	50,231	54,057	7.1
Fatal and Injury Accidents	31,745	33,936	34,883	36,194	34,190	36,428	6.1
Speed-Related Accidents	9,811	10,617	10,433	11,787	10,662	11,120	4.1
Speed-Related Fatal Accidents	265	237	234	244	245	242	-1.2
Alcohol-Related Accidents	7,760	7,671	7,890	7,669	7,748	8,052	3.8
Alcohol-Related Fatal Accidents	171	198	194	172	184	196	6.3
Drug-Related Accidents	297	327	387	378	347	368	5.6
Pedestrian Accidents	1,622	1,564	1,534	1,542	1,566	1,486	-5.3
Bicycle Accidents	971	967	827	807	893	730	-22.3
Motorcycle Accidents	1,661	1,482	1,295	1,084	1,381	1,132	-22.0
School Bus Accidents	679	658	755	819	728	822	11.5
Truck Accidents	11,642	10,815	11,110	11,566	11,283	11,103	-1.6

^{*} Percent change from 1986-1989 average to 1990.

TABLE 42. 1					T TYPE FOR 1						
		ESTRIAN	BICYC		MOTORO		SCHOOL		TRUCK		
COUNTY	NUMBER*	IDENTS RATE**	ACCIDE NUMBER*	RATE**	ACCIDE	RATE**	ACCIDI		ACCID	~	
Adair	12	1.6	6	0.8	NUMBER*	3.4	NUMBER*	RATE**	NUMBER*	RATE** 20.6	
Allen	19	2.6	3	0.4	27	3.7	11	1.5	156	20.6	
Anderson	32	4.4	12	1.6	16	2.2	14	1.9	194	26.6	
Ballard	11	2.8	4	1.0	15	3.8	4	1.0	158	40.0	
Barren	35	2.1	15	0.9	60	3.5	23	1.4	536	31.5	
Bath	3	0.6	4	0.8	11	2.3	7	1.4	108	22.3	
Bell -	72	4.6	33	2.1	63	4.0	25	1.6	462	29.3	
Boone	124 31	4.3 3.2	49	1.7	163	5.7	48	1.7	2,065	71.7	
Bourbon Boyd	123	4.8	18 57	1.9 2.2	29 115	3.0 4.5	21 64	2.2 2.5	285	29.6	
Boyle	55	4.3	28	2.2	42	3.3	18	1.4	1,017 324	39.8 25.3	
Bracken	3	0.8	1	0.3	8	2.1	3	0.8	56	14.4	
Breathitt	30	3.8	5	0.6	29	3.7	29	3.7	237	30.2	
Breckinridge	. 8	1.0	2	0.2	15	1.8	15	1.8	152	18.6	
Bullitt	56	2.4	43	1.8	73	3.1	45	1.9	617	25.9	
Butler	13	2.3	4	0.7	13	2.3	8	1.4	125	22.2	
Caldwell	15	2.3	8	1.2	21	3.2	12	1.8	169	25.5	
Calloway	48	3.1	30	2.0	51	3.3	17	1.1	248	16.1	
Campbell	315	7.5	152	3.6	125	3.0	56	1.3	1,088	25.9	
Carlisle	4	1.5	0	0.0	. 6	2.3	3	1.1	47	17.9	
Carroll Carter	28 22	6.0 1.8	18 9	3.9 0.7	34	7.3	8	1.7	227	48.9	
Casey	9	1.3	2	0.7	39 21	3.2 3.0	27 2	2.2 0.3	248 79	20.4 11.1	
Christian	99	2.9	78	2.3	136	3.9	41	1.2	802	23.3	
Clark	67	4.5	34	2.3	45	3.1	52	3.5	447	30.3	
Clay	19	1.7	10	0.9	33	3.0	16	1.5	238	21.9	
Clinton	15	3.3	. з	0.7	9	2.0	3	0.7	74	16.2	
Crittenden	5	1.1	4	0.9	10	2.2	11	2.4	66	14.4	
Cumberland	2	0.6	3	0.9	3	0.9	1	0.3	25	7.4	
Daviess	179	4.1	202	4.6	201	4.6	91	2.1	1,160	26.6	
Edmonson	8 4	1.5	2	0.4	10	1.9	16	3.1	69	13.3	
Elliott Estill	20	1.2 2.7	1 2	0.3 0.3	15 19	4.6 2.6	2 21	0.6 2.9	43 66	13.3 9.0	
Fayette	773	6.9	485	4.3	546	4.8	320	2.9	4,197	37.2	
Fleming	13	2.1	4	0.7	11	1.8	6	1.0	128	20.8	
Floyd	68	3.1	21	1.0	77	3.5	69	3.2	867	39.8	
Franklin	101	4.6	36	1.6	67	3.1	47	2.1	615	28.1	
Fulton	24	5.8	13	3.1	9	2.2	5	1.2	91	22.0	
Gallatin	9	3.3	3	1.1	6	2.2	4	1.5	161	59.7	
Garrard	8	1.4	3	0.5	16	2.8	4	0.7	86	14.9	
Grant	20	2.5	7	0.9	23	2.9	22	2.8	361	45.9	
Graves	42	2.5	32	1.9	74	4.4	29	1.7	371	22.1	
Grayson Green	25 6	2.4 1.2	8	0.8	24 13	2.3 2.5	20 7	1.9 1.3	245 85	23.3 16.4	
Greenup	37	2.0	16	0.9	43	2.3	24	1.3	338	18.4	
Hancock	4	1.0	6	1.5	11	2.8	3	0.8	82	20.9	
Hardin	106	2.4	88	2.0	185	4.1	68	1.5	1,260	28.2	
Harlan	71	3.9	26	1.4	63	3.4	34	1.9	540	29.5	
Harrison	31	3.8	10	1.2	27	3.3	22	2.7	223	27.4	
Hart	15	2.0	3	0.4	25	3.4	8	1.1	281	37.7	
Henderson	107	5.0	96	4.5	126	5.9	41	1.9	823	38.2	
Henry	13	2.0	4	0.6	16	2.5	14	2.2	286	44.6	
Hickman	5	1.8	0	0.0	4	1.4	3	1.1	41	14.7	
Hopkins	71	3.1	66 1	2.9	82	3.6	65	2.8	743 76	32.2	
Jackson Jefferson	5 2,311	0.8 7.0	1,410	0.2 4.2	14 1,270	2.3 3.8	14 715	2.3 2.2	76 11,723	12.7 35.3	
Jerrerson	34	2.2	22	1.4	1,270 46	3.8 3.0	41	2.7	419	27.5	
Johnson	32	2.8	15	1.3	16 ·	1.4	15	1.3	277	23.8	
Kenton	574	8.1	318	4.5	300	4.2	181	2.5	2,539	35.8	
Knott	17	1.9	6	0.7	18	2.0	26	2.9	194	21.7	
Knox	34	2.3	24	1.6	48	3.2	34	2.3	272	18.3	
Larue	12	2.1	3	0.5	10	1.7	14	2.4	127	21.7	
Laurel	47	2.2	15	0.7	75	3.5	43	2.0	825	38.0	

TABLE 42. NUMBER OF ACCIDENTS AND RATES BY ACCIDENT TYPE FOR EACH COUNTY (continued)

TABLE 42.				BY ACCIDENT			(continue			
		STRIAN	BICY		MOTOR		SCHOOL		TRUC	
		DENTS	ACCIDI		ACCIDI		ACCIDE		ACCIDI	
COUNTY	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**	NUMBER*	RATE**
Lawrence	4	1.0	1 1	0.1	25	3.6	8	1.1	248	35.4
Lee	7	1.1 1.0	0	0.3	4	1.1	5	1.3	61	16.4
Leslie	32	2.4	3	0.0	38	5.6	4	0.6	137	20.1
Letcher	20	3.1	6	0.2	44	3.3	26	1.9	380	28.1
Lewis	20 11	1.1	5	0.9	23	3.5	16	2.5	102	15.7
Lincoln	9	2.0	3	0.5	28	2.8	15	1.5	226	22.5
Livingston	31	2.5	12	0.7	10	2.2	2	0.4	96	21.2
Logan	2	0.6	3	1.0	33	2.7	26	2.1	326	26.7
Lyon				0.9	3	0.9	2	0.6	85	25.7
McCracken	121	3.8	112	3.6	209	6.6	52	1.7	913	29.0
McCreary	6	0.8	1	0.1	14	1.8	15	1.9	62	7.9
McLean	5	1.0	10	2.1	14	2.9	6	1.2	94	19.5
Madison	126	4.4	52	1.8	111	3.9	55	1.9	1,239	43.1
Magoffin	23	3.5	4	0.6	12	1.8	8	1.2	156	23.9
Marion	33	4.0	13	1.6	25	3.0	29	3.5	141	17.1
Marshall	27	2.0	8	0.6	56	4.1	20	1.5	380	27.9
Martin	17	2.7	2	0.3	9	1.4	13	2.1	205	32.7
Mason	43	5.2	15	1.8	30	3.6	18	2.2	305	36.6
Meade	24	2.0	8	0.7	36	3.0	15	1.2	171	14.1
Menifee	5	2.0	3	1.2	6	2.4	2	0.8	34	13.4
Mercer	30	3.1	13	1.4	47	4.9	22	2.3	232	24.2
Metcalfe	10	2.2	1	0.2	12	2.7	17	3.8	70	15.6
Monroe	10	1.8	1	0.2	9	1.6	6	1.1	53	9.3
Montgomery	42	4.3	7	0.7	23	2.4	22	2.2	262	26.8
Morgan	4	0.7	0	0.0	18	3.1	13	2.2	80	13.7
Muhlenberg	38	2.4	11	0.7	58	3.7	26	1.7	427	27.3
Nelson	52	3.5	24	1.6	44	3.0	24	1.6	342	23.0
Nicholas	10	3.0	1	0.3	6	1.8	3	0.9	35	10.4
Ohio	27	2.6	6	0.6	30	2.8	15	1.4	251	23.8
Oldham	24	1.4	22	1.3	35	2.1	35	2.1	387	23.3
Owen	10	2.2	4	0.9	13	2.9	10	2.2	67	14.8
Owsley	4	1.6	1	0.4	4	1.6	8	3.2	32	12.7
Pendleton	14	2.3	7	1.2	11	1.8	19	3.2	136	22.6
Perry	47 108	3.1 3.0	14 27	0.9	69	4.6	36	2.4	600	39.6
Pike	108	1.7	2 / 5	0.7 0.9	97	2.7	98	2.7	1,584	43.6
Powell Pulaski	59	2.4	15	0.6	18	3.1	11	1.9 1.9	132 549	22.6
Robertson	0	0.0	0	0.0	62	2.5 1.9	47 0	0.0	549	22.2 4.7
Rockcastle	19	2.6	0	0.0	2 19	2.6	16	2.2	252	34.0
Rowan	44	4.3	17	1.7	40	3.9	18	1.8	283	27.8
Russell	16	2.2	5	0.7			3	0.4	263 79	10.7
Scott	32	2.7	22	1.8	18	2.4 3.4	42	3.5	531	44.5
Shelby	36	2.9	21	1.7	41 40	3.2	28	2.3	599	48.3
Simpson	23	3.0	12	1.6	21	2.8	9	1.2	378	49.9
Spencer	6	1.8	2	0.6	13	3.8	4	1.2	378	9.7
Taylor	22	2.1	16	1.5	34	3.2	9	0.9	186	17.6
Todd	15	2.7	3	0.5	18	3.3	4	0.7	95	17.4
Trigg	6	1.2	5	1.0	28	5.4	11	2.1	125	24.1
Trimble	10	3.3	2	0.7	11	3.6	6	2.0	65	21.3
Union	29	3.5	20	2.4	28	3.4	10	1.2	183	22.1
Warren	167	4.4	122	3.2	28 185	3.4 4.8	87	2.3	1,372	35.8
Warren Washington	14	2.7		0.4			10	1.9	1,372	21.1
_	32	3.7	2 8		9	1.7		1.5	110	12.9
Wayne Webster	23	3.7	6	0.9	84	9.6	13 20	2.9	266	38.1
Whitley	23 60	3.5 3.6	21	1.3	31 45	4.4 2.7	40	2.4	266 539	32.3
Wnittey Wolfe	11	3.4	21		45		7	2.4	103	31.7
Woodford	30	3.4	12	0.6	11	3.4	22	2.2	297	29.8
MOOGTOLG	30	3.0		1.2	22	2.2		4.2	231	43.0

^{*}Five-year (1986-1990) total.

^{**} Rates are annual accidents per 10,000 population.

TABLE 43. PED	ESTRIAN ACCIDENT RATES BY	COUNTY AND POPUL	ATION CATEGORY (IN C	ORDER OF DECREASING PER	CENTAGES)
		ACCIDENT RATE		NUMBER OF ANUAL	ACCIDENT RATE
	PEDESTRIAN	(ACCIDENTS		PEDESTRIAN	(ACCIDENTS
	ACCIDENTS	PER 10,000		ACCIDENTS	PER 10,000
COUNTY	(1986-1990)	POPULATION)	COUNTY	(1986-1990)	POPULATION)
	N CATEGORY UNDER 10,000			CATEGORY 15,000-24,999	(CONTINUED)
Carroll	28	6.0	Harrison	31	3.8
Fulton	24	5.8	Wayne	32	3.7
Wolfe	11	3.4	Union	29	3.5
Gallatin	9	3.3	Bourbon	31	3.2
Trimble	10	3.3	Mercer	30	3.1
Clinton	15	3.3	Simpson	23	3.0
Nicholas	10	3.0	Woodford	30	3.0
Ballard	11 10	2.8	Shelby	36	2.9
Metcalfe	10	2.2 2.2	Johnson	32	2.8
Owen Livingston	9	2.2	Scott	32 27	2.7
Menifee	5	2.0	Ohio Grant	27	2.6
Hickman	5	1.8		31	2.5
Spencer	6	1.8	Logan	25	2.5
Owsley	4	1.6	Grayson	22	2.4
Carlisle	4	1.5	Taylor	24	2.1
Elliott	4	1.2	Meade		2.0
	* 5		Knott	17	1.9
Crittenden		1.1	Carter	22	1.8
Lee	4	1.1	Clay	19	1.7
McLean	5	1.0	Adair	12	1.6
Hancock	4	1.0	Lincoln	11	1.1
Bracken	3	0.8	Breckinridge	8	1.0
Bath	3	0.6	McCreary	6	0.8
Lyon	2 2	0.6		CATEGORY 25,000-50,000	
Cumberland	0	0.6	Henderson	107	5.0
Robertson		0.0	Franklin	101 72	4.6
Anderson	N CATEGORY 10,000-14,999 32	4.4	Bell	67	4.6
	23	3.5	Clark	55	4.5
Magoffin	23		Boyle		4.3
Webster Lewis	20	3.3 3.1	Harlan	71 60	3.9
Todd	15	2.7	Whitley	52	3.6 3.5
Estill	20	2.7	Nelson	48	3.1
Martin	17	2.7	Calloway	68	3.1
Washington	14	2.7	Floyd Perry	47	3.1
Allen	19	2.6	Hopkins	71	3.1
Rockcastle	19	2.6	Graves	42	2.5
Pendleton	14	2.3	Muhlenberg	38	2.4
Butler	13	2.3	Pulaski	59	2.4
Caldwell	15	2.3	Letcher	32	2.4
Russell	16	2.2	Bullitt	56	2.4
Fleming	13	2.1	Knox	34 ·	2.3
Larue	12	2.1	Jessamine	34	2.2
Henry	13	2.0	Laurel	47	2.2
Hart	15	2.0	Barren	35	2.1
Monroe	10	1.8	Greenup	37	2.0
Powell	10	1.7	Marshall	27	2.0
Edmonson	8	1.5	Oldham	24	1.4
Garrard	8	1.4		CATEGORY OVER 50,000	
Casey	9	1.3	Kenton	574	8.1
Trigg	6	1.2	Campbell	315	7.5
Green	6	1.2	Jefferson	2,311	7.0
Leslie	7	1.0	Fayette	773	6.9
Lawrence	7	1.0	Boyd	123	4.8
Jackson	5	0.8	Madison	126	4.4
Morgan	4	0.7	Warren	167	4.4
	CATEGORY 15,000-24,999		Boone	124	4.3
Mason	43	5.2	Daviess	179	4.1
Rowan	44	4.3	McCracken	121	3.8
Montgomery	42	4.3	Pike	108	3.0
Marion	33	4.0	Christian	99	2.9
Breathitt	30	3.8	Hardin	106	2.4
		******	***	······································	

TABLE 44. PEDESTRIAN ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1986-1990 DATA)

(IN ORD	ER O	F DECREASING PERCENTAGE	======== 2)(1300-13	=======	====	
		ACCIDENT RATE				ACCIDENT RATE
NUMBER		(ACCIDENTS PER	OTMIZ	NUMBER		(ACCIDENTS PER 10,000 POPULATION)
CITY ACCIDEN	ITS	10,000 POPULATION)	CITY	ACCIDE		
POPULATION CATE	CORY	OVER 200,000	POPULAT	ION CATE	GORY	2,500-4,999
	40	11.4	Carrollto		26	14.0
Lexington 7	48	6.6	Harlan		18	13.4
POPULATION CATE	GORY	20,000-55,000	Prestonsh	urg	17	9.6 9.3
Covington 3	197	18.4	Ludlow		22 13	9.0
	97	8.2	Springfie Scottsvil	la la	16	7.5
	.64 .00	8.1 7.7	Shepherds	ville	18	7.5
	79	7.5	Providence		14	6.8
	95	7.0	Fulton		10	6.5
	89	6.9	Tompkinsv	ille	9	6.3
Hopkinsville	82	5.5	Irvine		9	6.3 6.2
Owensboro 1	.47	5.5	Highland		13 13	6.0
Jeffersontown	33	2.8	Paintsvil Barbourvi		10	5.5
POPULATION CATE	169	10,000-19,999	Morganfie		10	5.3
Nonpos -	79	10.2	Mount Ver	non	7	5.3
Shively Middlesboro	45	7.9	Central C		13	5.2
Somerset	42	7.8	Columbia	- .	10	5.2
Winchester	57	7.2	Stanford		7	5.2
Florence	67	7.2	Benton	•	10 9	5.1 4.7
	44	7.1	Lagrange		6	4.5
Saint Matthews	51	6.5 5.9	Hickman Hodgenvil	ا ۾	6	4.4
Erlanger	47 47	5.8	Southgate		7	4.3
Madisonville Murray	36	5.0	Beaver Da		6	4.1
Glasgow	29	4.7	Vine Grov		7	3.9
Elizabethtown	34	3.7	Leitchfie		9	3.6 3.5
Georgetown	20	3.5	Lancaster		6	3.3
Fort Thomas	23	2.9	Flemingsh Williamst		5	3.3
Independence	14 24	2.7 2.4	Stanton	.Owii	4	2.9
Radcliff Nicholasville	13	1.9	Jenkins		4	2.9
POPULATION CATE	GORY		Cold Spri		9655444645343333	2.8
Monticello	31	11.6	Greenvill		6	2.6 2.6
Maysville	41	11.4	Dawson Sp	orings	4	2.5
Lawrenceburg	29	9.8 9.1	Russell Hartford		3	2.4
Bardstown	31 24	9.0	Grayson		4	2.3
Mount Sterling Corbin	31	8.4	Lakeside	Park	3	1.9
London	24	8.3	Cumberlar		3	1.9
Bellevue	29	8.3	Marion		3	1.8 1.8
Cynthiana	26	8.0	Park Hill	.s	1	0.8
Lebanon	21	7.4	Calvert C Wilmore	ricy	i	0.5
Williamsburg	20 26	7.3 7.1	MITIMOLE		_	
Harrodsburg Dayton	22	6.7				
Morehead	27	6.5				
Russellville	24	6.4				
Mayfield	32	6.4				
Shelbyville	20	6.4 5.9				
Hazard Pikeville	16 18	5.9 5.7				
Versailles	20	5.5				
Paris	23	5.3				
Fort Wright	16	4.9				
Elsmere	16	4.7				
Fort Mitchell	17	4.6 4.4				
Flatwoods	17 17	4.4				
Edgewood Franklin	16	4.2				•
Berea	19	4.2				
Princeton	13	3.7				
Mount Washington	8	3.1				
Campbellsville	10	2.1				
Taylor Mill	4 4	1.4 1.4				
Alexandria Villa Hills	1	0.3				
ATTIW UTTIR	_	0.5				

TABLE 45. BICY			ON CATEGORY (IN O	RDER OF DECREASING PERCE	NTAGES)
		L ACCIDENT RATE			ACCIDENT RATE
	BICYCLE	(ACCIDENTS		BICYCLE	(ACCIDENTS
	ACCIDENTS	PER 10,000		ACCIDENTS	PER 10,000
COUNTY	(1986-1990)	POPULATION)	COUNTY	(1986-1990)	POPULATION)
POPULATION	CATEGORY UNDER 10,000)	POPULATION	CATEGORY 15,000-24,999	
Carroll	18	3.9	Rowan	17	1.7
Fulton	13	3.1	Simpson	12	1.6
McLean	10	2.1	Marion	13	1.6
Hancock	6	1.5	Taylor	16	1.5
Menifee	3	1.2	Mercer	13	1.4
Gallatin	3	1.1	Johnson	15	1.3
Ballard	4	1.0	Harrison	10	1.2
Lyon	3	0.9	Woodford	12	1.2
Owen	4	0.9	Logan	12	1.0
Cumberland	3	0.9	Clay	10	0.9
Crittenden	4	0.9	Wayne	8	0.9
Bath	4	0.8	Grant	7	0.9
Livingston	3	0.7	Adair	6	0.8
Trimble	2	0.7	Grayson	8	0.8
Clinton	3	0.7	Carter	9	0.7
Wolfe	2	0.6	Montgomery	7	0.7
Spencer	2	0.6	Knott	6	0.7
Owsley	1	0.4	Meade	8	0.7
Elliott	1	0.3	Breathitt	5	0.6
Nicholas	1	0.3	Ohio	6	
	1	0.3		5	0.6
Lee	1		Lincoln	2	0.5
Bracken	1	0.3	Breckinridge	1	0.2
Metcalfe	0	0.2	McCreary	=	0.1
Robertson	0	0.0		CATEGORY 25,000-50,000	
Hickman	0	0.0	Henderson	96	4.5
Carlisle		0.0	Hopkins	66	2.9
	CATEGORY 10,000-14,99		Clark	34 28	2.3
Anderson	12 8	1.6	Boyle		2.2
Caldwell	7	1.2	Bell	33	2.1
Pendleton	, 5	1.2	Calloway	30	2.0
Trigg	6	1.0	Graves	32	1.9
Lewis	6	0.9	Bullitt	43	1.8
Webster	5	0.9	Franklin	36	1.6 1.6
Powell	4	0.9	Knox	24 24	1.6
Butler Russell	5	0.7 0.7	Nelson	22	1.4
	4	0.7	Jessamine Harlan	26	1.4
Fleming	4	0.6	Oldham	22	1.3
Henry .	4	0.6		21	1.3
Magoffin	3	0.6	Whitley Floyd	21	1.0
Green Todd	3	0.5		14	0.9
	3		Perry	15	0.9
Garrard Larue	3	0.5 0.5	Barren	16	0.9
Allen	3	0.4	Greenup	11	0.7
Hart	3	0.4	Muhlenberg	15	0.7
Edmonson	2	0.4	Laurel	15	0.6
	2	0.4	Pulaski	8	0.6
Washington	2	0.3	Marshall	3	0.2
Martin	2	0.3	Letcher	CATEGORY OVER 50,000	0.2
Casey Estill	2	0.3		202	4.6
	1		Daviess	318	4.5
Monroe		0.2	Kenton		
Jackson	1	0.2	Fayette	485	4.3
Lawrence	1	0.1	Jefferson	1,410	4.2 3.6
Morgan	0	0.0	Campbell	152	
Rockcastle	0	0.0	McCracken	112	3.6 3.2
Leslie	_	0.0	Warren	122	2.3
	CATEGORY 15,000-24,999		Christian	78 57	2.3
Union	20	2.4	Boyd	57	2.2
Bourbon	18	1.9	Hardin	88	1.8
Scott	22	1.8	Madison	52	1.7
Mason	15	1.8	Boone	49	
Shelby	21	1.7	Pike	27	0.7

TABLE 46. BICYCLE ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES)(1986-1990 DATA)

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		ACCIDENT RATE		ACCIDENT RATE
NUM	BER OF	(ACCIDENTS PER	NUMBER	OF (ACCIDENTS PER
CITY ACC	IDENTS	10,000 POPULATION)	CITY ACCIDEN	ITS 10,000 POPULATION)
				<u>-</u>
POPULATION	CATEGORY	OVER 200,000	POPULATION CATEG	ORY 2,500-4,999
Louisville	881	6.5	Ludlow	24 10.1
Lexington	484	4.3	Carrollton	18 9.7
POPULATION	CATEGORY	20,000-55,000	Harlan	9 6.7
Covington	176	8.1	Highland Heights	11 5.2
Henderson	93	7.2	Fulton	8 5.2
Paducah	89	6.5	Shepherdsville	11 4.6
Owensboro	162	6.1	Lagrange	8 4.2
Bowling Green		5.1	Paintsville	9 4.1
Hopkinsville	71	4.8	Morganfield	7 3.7
Ashland	49	4.1	Marion	5 3.0
Richmond	32	3.0	Stanford	4 3.0
		2.9	Barbourville	5 2.7
Jeffersontown	27	2.5	Russell	5 2.5
Frankfort			. •	4 2.2
POPULATION		10,000-19,999	Vine Grove	3 2.1
Madisonville	56	6.9	Cold Spring	3 2.1
Newport	64	6.8	Stanton	3 2.1
Shively	45	5.8	Beaver Dam	3 2.1
Saint Matthew		4.7	Irvine	3 2.1
Middlesboro	24	4.2	Central City	9 4.1 7 3.7 5 3.0 9 2.7 5 2.5 2.5 2.1 3 2.1 3 2.1 3 2.1 3 2.1 9 1.8 1.6 1.6 1.5 1.3 2.1 1.0 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Erlanger	31	3.9	Lakeside Park	3 1.9
Murray	27	3.7	Providence	4 1.9
Fort Thomas	29	3.6	Lancaster	3 1.8
Winchester	27	3.4	Prestonsburg	3 1.7
Elizabethtown		3.3	Columbia	3 1.6
Georgetown	19	3.3	Calvert City	2 1.6
Florence	26	2.8	Hickman	2 1.5
Danville	17	2.7	Williamstown	2 1.3
Radcliff	27	2.7	Southgate	2 1.2
Nicholasville	14	2.1	Grayson	2 1.1
Somerset	10	1.9	Benton	2 1.0
Independence	9	1.7	Scottsville	2 0.9
Glasgow	8	1.3	Hodgenville	1 0.7
POPULATION	CATEGORY	5,000-9,999	Flemingsburg	1 0.7
Elsmere	27	7.9	Dawson Springs	1 0.6
Bellevue	22	6.3	Leitchfield	1 0.4
Mayfield	30	6.0		
Shelbyville	15	4.8		
Lebanon	13	4.6		
Paris	19	4.4		
Dayton	14	4.3		
Corbin	16	4.3		
Bardstown	14	4.1		
Franklin	15	3.9		
Monticello	10	3.7		
Lawrenceburg	īi	3.7		
Berea	16	3.5		
Mount Washing		3.4		
Maysville	12	3.3		
London	9	3.1		
Morehead	12	2.9		
Campbellsville		2.7		
Cynthiana	8	2.5		
Princeton	8	2.3		
Harrodsburg	8	2.2		
Pikeville	8 7	2.2		
Edgewood	ġ	2.2	×.	
Russellville	á	2.1		
Versailles	7	1.9		
Mount Sterling	7 Ś	1.9		
Fort Wright	5 6 5	1.8		
Williamsburg	Ĕ	1.8		
Williamsburg Hazard	4	1.5		
Fort Mitchell	5	1.3		
Villa Hills	4	1.0		
	3	0.8		
Flatwoods	2			
Alexandria	1	0.7 0.4		
Taylor Mill		U.4		w

TABLE 47. MOTO	RCYCLE ACCIDENT RATES BY	COUNTY AND POPUL	LATION CATEGORY (I	N ORDER OF DECREASING PH	RCENTAGES)
	NUMBER OF ANNUAL	ACCIDENT RATE			ACCIDENT RATE
	MOTORCYCLE	(ACCIDENTS		MOTORCYCLE	(ACCIDENTS
	ACCIDENTS	PER 10,000		ACCIDENTS	PER 10,000
COUNTY	(1986-1990)	POPULATION)	COUNTY	(1986-1990)	POPULATION)
	CATEGORY UNDER 10,000	~ ~		N CATEGORY 15,000-24,999	•
Carroll	34 15	7.3	Scott	41	3.4
Elliott	13	4.6	Adair	26	3.4
Spencer	15 15	3.8	Union	28	3.4
Ballard Trimble	11	3.8 3.6	Harrison	27	3.3
Wolfe	11	3.4	Shelby Taylor	40 34	3.2
McLean	14	2.9	Carter	39	3.2
Owen	13	2.9	Clay	33	3.2 3.0
Hancock	11	2.8	Marion	25	3.0
Metcalfe	12	2.7	Bourbon	29	3.0
Menifee	6	2.4	Meade	36	3.0
Carlisle	6	2.3	Grant	23	2.9
Bath	11	2.3	Ohio	30	2.8
Gallatin	6	2.2	Lincoln	28	2.8
Livingston	10	2.2	Simpson	21	2.8
Fulton	9	2.2	Logan	33	2.7
Crittenden	10	2.2	Montgomery	23	2.4
Bracken	8	2.1	Grayson	24	2.3
Clinton	9	2.0	Woodford	22	2.2
Robertson	2	1.9	Knott	18	2.0
Nicholas	6	1.8	Breckinridge	15	1.8
Owsley	4	1.6	McCreary	14	1.8
Hickman	4	1.4	Johnson	16	1.4
Lee	4	1.1		CATEGORY 25,000-50,000	
Lyon	3	0.9	Henderson	126	5.9
Cumberland	3	0.9	Perry	69	4.6
POPULATION	CATEGORY 10,000-14,999		Graves	74	4.4
Leslie	38	5.6	Marshall	56	4.1
Trigg	28	5.4	Bell	63	4.0
Webster	31	4.4	Muhlenberg	58	3.7
Allen	27	3.7	Hopkins	82	3.6
Lawrence	25	3.6	Floyd	77	3.5
Lewis	23	3.5	Barren	60	3.5
Hart	25	3.4	Laurel	75	3.5
Todd	18	3.3	Harlan	63	3.4
Caldwell	21	3.2	Calloway	51	3.3
Morgan	18	3.1	Boyle	42	3.3
Powell	18	3.1	Letcher	44	3.3
Casey	21	3.0	Knox	48	3.2
Garrard	16	2.8	Bullitt	73	3.1
Estill	19	2.6	Franklin	67	3.1
Rockcastle	19	2.6	Clark	45	3.1
Green	13	2.5	Jessamine	46	3.0
Henry Russell	16 18	2.5 2.4	Nelson	44 45	3.0 2.7
Jackson	14	2.4	Whitley	62	2.7
Butler	13	2.3	Pulaski	43	2.3
Anderson	16	2.2	Greenup Oldham	35	2.1
Edmonson	10	1.9		CATEGORY OVER 50,000	2.1
Magoffin	12	1.8	McCracken	209	6.6
Pendleton	11	1.8	Boone	163	5.7
Fleming	11	1.8	Fayette	546	4.8
Washington	9	1.7	Warren	185	4.8
Larue	10	1.7	Warren Daviess	201	4.6
Monroe	9	1.6	Boyd	115	4.5
Martin	9	1.4	Kenton	300	4.2
	CATEGORY 15,000-24,999	•••	Hardin	185	4.1
Wayne	84	9.6	Christian	136	3.9
Mercer	47	4.9	Madison	111	3.9
Rowan	40	3.9	Jefferson	1,270	3.8
Breathitt	29	3.7	Campbell	125	3.0
Mason	30	3.6	Pike	97	2.7

TABLE 48. MOTORCYCLE ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1986-1990 DATA)

(IN C	ORDER O	F DECREASING PERCENTAGE	S)(1986-1990				:=======	
		ACCIDENT RATE				ACCIDENT		_
NUMBE		(ACCIDENTS PER		NUMBER		(ACCIDEN		
CITY ACCID	ENTS	10,000 POPULATION)	CITY	ACCIDE	NTS	10,000 POP	ULATION)	
POPULATION CA	TEGORY	OVER 200,000	POPIIT.ATT	ON CATE	CORY	2,500-4,99	9	-
Louisville	698	5.2	Harlan	J., O., .	12	2,000 1,00	8.9	
Lexington	547	4.9	Shepherdsv		16		6.7	
		20,000-55,000	Prestonsbu		12		6.7	
Paducah Henderson	143 86	10.5 6.6	Scottsville Carrollton		13 10		6.1 5.4	
Bowling Green	132	6.5	Cumberland		8		5.1	
Covington	133	6.1	Benton		10		5.1	
Ashland	67	5.7	Barbourvil.	Le	9 9 9		4.9	
Hopkinsville Owensboro	69 117	4.6 4.4	Columbia Russell		٥		4.7 4.5	
Richmond	38	3.6	Jenkins		6		4.4	
Frankfort	41	3.2	Beaver Dam		6		4.1	
Jeffersontown	32	2.8	Williamsto	vn	6		4.0	
		10,000-19,999	Providence		8 6 5 9		3.9	
Glasgow Radcliff	42 65	6.8 6.6	Dawson Spri	Lngs	5		3.8 3.7	
Erlanger	52	6.5	Leitchfield	1	9		3.6	
Shively	48	6.2	Central Cit	-y	9 7		3.6	
Florence	55	5.9	Highland He				3.3	
Middlesboro	29 44	5.1 4.8	Calvert Cit Greenville	z y	4 7		3.2 3.0	
Elizabethtown Newport	42	4.5	Ludlow		Ź		3.0	
Murray	30	4.2	Stanton		4		2.9	
Nicholasville	27	4.0	Springfield	1	4		2.8	
Georgetown Danville	21 21	3.7 3.4	Vine Grove Lakeside Pa	rk	5 4		2.8 2.6	
Saint Matthews	26	3.3	Fulton	LIA	4		2.6	
Somerset	17	3.2	Southgate		4		2.4	
Madisonville	26	3.2	Hickman		3	•	2.2 2.1	
Independence Winchester	15 21	2.9 2.7	Lagrange Irvine		3		2.1	
Fort Thomas	9	ī. <u>í</u>	Marion		43333232222		1.8	
POPULATION CA			Lancaster		3		1.8	
London	22 25	7.6	Grayson	10	3		1.7 1.4	
Harrodsburg Mayfield	25 29	6.8 5.8	Tompkinsvil Paintsville		3		1.4	
Russellville	20	5.4	Flemingsbur		2		1.3	
Fort Wright	17	5.2	Park Hills		2		1.2	
Paris	22 24	5.0	Morganfield	į.	2		1.1 0.9	
Campbellsville Lebanon	24 14	5.0 4.9	Wilmore Mount Verno	n	ĩ		0.8	
Williamsburg	13	4.7	Cold Spring		1		0.7	
Maysville	17	4.7						
Bardstown	16 12	4.7 4.5						
Mount Sterling Monticello	12	4.5						
Shelbyville	14	4.5						
Hazard	12	4.4						
Franklin Corbin	16 14	4.2 3.8						
Cynthiana	12	3.7						
Pikeville	11	3.5						
Morehead	14	3.4						
Mount Washington Dayton	n 9 10	3.4 3.0						
Fort Mitchell	11	3.0						
Bellevue	10	2.9						
Elsmere	10	2.9						
Princeton Berea	9 11	2.6 2.4						
Flatwoods	9	2.3						
Versailles	7	1.9					•	
Taylor Mill	5 5	1.8 1.7						
Lawrenceburg Edgewood	5 6	1.5						
Alexandria	4	1.4						
Villa Hills	3	0.8						_

TABLE 49. SCHOO	NUMBER OF ANNUAL	ACCIDENT RATE	ILATION CATEGORY (I	N ORDER OF DECREASING PE	
	SCHOOL BUS				ACCIDENT RATI
		(ACCIDENTS		SCHOOL BUS	(ACCIDENT:
	ACCIDENTS	PER 10,000		ACCIDENTS	PER 10,000
COUNTY	(1986-1990)	POPULATION)	COUNTY	(1986-1990)	POPULATION
	CATEGORY UNDER 10,000			CATEGORY 15,000-24,999	(CONTINUED)
Metcalfe	17	3.8	Harrison	22	2.
Owsley	8	3.2	Mercer	22	2.
Crittenden	11	2.4	Shelby	28	2.:
Owen	10	2.2	Montgomery	22	2.:
Wolfe	7	2.2	Carter	27	2.:
Trimble	6	2.0	Woodford	22	2.:
Carroll	8	1.7	Bourbon	21	2.:
Gallatin	4	1.5	Mason	18	2.:
Bath	7	1.4	Logan	26	2.:
Lee	5	1.3	McCreary	15	1.:
McLean	6	1.2	Grayson	20	1.9
Fulton	5	1.2	Breckinridge	15	1.4
Spencer	4	1.2	-		
Carlisle	3		Rowan	18	1.8
		1.1	Adair	13	1.7
Hickman	3	1.1	Lincoln	15	1.5
Ballard	4	1.0	Wayne	13	1.5
Nicholas	3	0.9	Clay	16	1.5
Menifee	2	0.8	Ohio	15	1.4
Bracken	3	0.8	Johnson	15	1.3
Hancock	3	0.8	Meade	15	1.2
Clinton	3	0.7	Union	10	1.2
Elliott	2	0.6	Simpson	9	1.2
Lyon	2	0.6	=	9	0.9
Livingston	2	0.4	Taylor		
Cumberland	1			N CATEGORY 25,000-50,000	
		0.3	Clark	52	3.5
Robertson	0	0.0	Floyd	69	3.2
	CATEGORY 10,000-14,999		Hopkins	65	2.8
Pendleton	19	3.2	Jessamine	41	2.7
Edmonson	16	3.1	Whitley	40	2.4
Estill	21	2.9	Perry	36	2.4
Webster	20	2.9	Knox	34	2.3
Lewis	16	2.5	Franklin	47	2.1
Larue	14	2.4	Oldham	35	2.1
Jackson	14	2.3	Laurel	43	2.0
Morgan	13	2.2	Letcher	26	1.9
Henry	14	2.2	Henderson	41	1.9
Rockcastle	16	2.2	Pulaski	47	1.9
Frigg	11	2.1	Bullitt	45	
artin					1.9
	13	2.1	Harlan	34	1.9
Anderson	14	1.9	Graves	29	1.7
Washington	10	1.9	Muhlenberg	26	1.7
Powell	11	1.9	Nelson	24	1.6
Caldwell	12	1.8	Bell	25	1.6
llen	11	1.5	Marshall	20	1.5
Butler	8	1.4	Boyle	18	1.4
reen	7	1.3	Barren	23	1.4
Magoffin	8	1.2	Greenup	24	1.3
awrence	8	1.1	Calloway	17	1.1
lart	8	1.1	_	CATEGORY OVER 50,000	***
lonroe	6	1.1		320	2.8
			Fayette		
leming	6	1.0	Pike	98	2.7
'odd	4	0.7	Kenton	181	2.5
arrard	4	0.7	Boyd	64	2.5
eslie	4	0.6	Warren	87	2.3
ussell	3 .	0.4	Jefferson	715	2.2
asey	2	0.3	Daviess	91	2.1
_	ATEGORY 15,000-24,999		Madison	55	1.9
reathitt	29	3.7	Вооле	48	1.7
cott	42	3.5	McCracken	52	1.7
arion	29			68	1.5
		3.5	Hardin		
nott rant	26	2.9	Campbell	56	1.3
	22	2.8	Christian	41	1.2

TABLE 50. SCHOOL BUS ACCIDENT RATES BY CITY AND POPULATION CATEGORY (IN ORDER OF DECREASING PERCENTAGES) (1986-1990 DATA)

NUMBER OF ACCIDENT NATER NUMBER OF ACCIDENT SERVED ACCIDENTS 10,000 POPULATION	(IN	ORDER O	F DECREASING PERCENTAGE	S)(1986-	1990 DATA)	
NUMBER OF						
POPULATION CATEGORY OVER 200,000	NUME	ER OF	(ACCIDENTS PER		NUMBER OF	(ACCIDENTS PER
Lexington 315 8.4 Lexington 316 2.9 Prestonaburg 15 8.4 Lexington 316 2.8 Marion Shepherdsville 12 5.0 POPULATION CATEGORY 20,000-55,000 Shepherdsville 12 5.0 Bowling Green 57 2.8 Grayson 7 4.0 Bowling Green 57 2.8 Grayson 7 4.0 Frankfort 37 2.8 Carrollton 7 3.8 Frankfort 37 2.8 Carrollton 7 3.8 Richmond 12 34 2.3 Harlan 5 3.7 Richmond 12 37 2.8 Park Hills 5 3.5 Roperson 24 1.9 Park Hills 6 2.8 Renderson 24 1.9 Park Hills 5 3.5 Roperson 24 1.9 Park Hills 6 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Renderson 15 Springfield 4 2.8 Renderson 24 1.9 Renderson 15 Springfield 4 2.8 Renderson 24 1.9 Renderson 16 Renderson 3 2.2 Renderson 24 1.9 Renderson 1	CITY ACCI	DENTS	10,000 POPULATION)	CITY	ACCIDENTS	10,000 POPULATION)
Lexington 315 8.4 Lexington 316 2.9 Prestonaburg 15 8.4 Lexington 316 2.8 Marion Shepherdsville 12 5.0 POPULATION CATEGORY 20,000-55,000 Shepherdsville 12 5.0 Bowling Green 57 2.8 Grayson 7 4.0 Bowling Green 57 2.8 Grayson 7 4.0 Frankfort 37 2.8 Carrollton 7 3.8 Frankfort 37 2.8 Carrollton 7 3.8 Richmond 12 34 2.3 Harlan 5 3.7 Richmond 12 37 2.8 Park Hills 5 3.5 Roperson 24 1.9 Park Hills 6 2.8 Renderson 24 1.9 Park Hills 5 3.5 Roperson 24 1.9 Park Hills 6 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Springfield 4 2.8 Renderson 24 1.9 Renderson 15 Springfield 4 2.8 Renderson 24 1.9 Renderson 15 Springfield 4 2.8 Renderson 24 1.9 Renderson 16 Renderson 3 2.2 Renderson 24 1.9 Renderson 1			OVED 200 000		ARTON CARROODY	2 500-4 000
Lexington						
Ashland 45 3.8 Stanton 7 5.0 Ashland 45 3.8 Stanton 7 5.0 Ashland 45 3.8 Stanton 7 5.0 Covington 81 3.7 Vine Grove 8 4.5 Rowling Green 57 2.8 Grayson 7 7 4.0 Frankfort 37 2.8 Carrollton 7 3.7 Frankfort 37 2.1 Frankfort 37 2.8 Carrollton 7 3.7 Frankfort 37 2.1 Frankfort 37 2.8 Carrollton 7 3.7 Frankfort 37 2.8 Frankfort 3.1 Frankfort						
Ashland 45 3.8 Stanton 7 5.0 Covington 81 3.7 Vine Grove 8 4.5 Bowling Green 57 2.8 Grayson 7 4.0 Prankfort 31 2.3 Grayson 7 2.1 Scottsville 5 3.7 Prankfort 31 2.1 Prank Hills 5 3.0 Prankfort 31 2.1 Prank Hills 5 3.0 Prankfort 31 2.1 Prankfort					dsville 12	5.0
Bowling Green 57 2.8 Grayson 7 4.0 Frankfort 37 2.8 Carrollton 7 3.8 Paducah 31 2.3 Harlan 5 3.7 Richmond 24 2.3 Irvine 5 3.5 Hopkinsville 31 2.1 Park Hills 5 3.5 Hopkinsville 31 2.1 Park Hills 5 3.5 Hopkinsville 31 2.1 Park Hills 5 3.5 Hopkinsville 32 2.1 Park Hills 5 3.5 Hopkinsville 3.5 2.1 Park Hills 5 3.5 Hopkinsville 3.5 2.1 Park Hills 5 3.5 Hopkinsville 3.5 3.5 Hopkinsville 3.5 3.5 Springfield 4 2.8 Hopkinsville 3.5 3.5 Springfield 4 2.8 Hopkinsville 3.5 3.5 Somerset 2.3 4.5 Stanford 3 2.2 Shively 35 4.2 Benton 4 2.1 Georgetown 23 4.0 Greenville 5 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Micholasville 22 3.2 Wilmore 4 1.6 Hicholasville 22 3.2 Wilmore 1.6 Hiddleboro 11 1.9 Jenkins 2.1 Murray 10 1.4 Highland Heights 3.1.6 Haybort 1.4 Highland Heights 3.1.4 Haybort 1.4 Highland Heights 3.1.4 Haybort 1.5 1.2 Millianstown 2.1.3 Fort Thomas 7 0.9 Cumberland 2.1.3 Fort Mill 10 3.6 Hickman 1.0 0.7 Fort Mill 10 2.8 Mayville 3 0.8 Herrord 5 1.8 Friend 5 1.5 Berea 7 1.5 Hiddleboro 5 1.3 Hiddleboro 5 1.3 Hiddleboro 5 1.3 Hiddleboro 5 1.3 Hiddleboro 6 1.7 Hartord 1 0.5 Harto		45	3.8	Stanton	7	
Frankfort 37 2.8 Carrollton 7 3.8 Paducah 31 2.3 IArlan 5 3.7 Richmond 24 2.3 Irvine 5 3.5 Richmond 24 2.3 Irvine 5 3.5 Robinsville 31 2.1 Park Hills 5 3.0 Wensboro 57 2.1 Scottsville 6 2.8 Park Hills 5 3.0 Wensboro 57 2.1 Scottsville 6 2.8 Richmond 5 3.0 Renderson 59 3.0 Scottsville 6 2.8 Richmond 5 3 2.2 Park Hills 5 2.7 Richmond 5 3 2.2 Park Hills 5 2.5 Scottsville 6 2.8 Richmond 5 3 2.2 Park Hills 5 2.5 Scottsville 6 2.8 Richmond 5 2.5 Scottsville 5 2.5 Scottsville 6 2.8 Richmond 5 2.1 Richmond 5 2.1 Richmond 6 2.1 Richmond 7 Richmond 6 2.1 Richmond 7 Ric					_	
Paducah 31					- · · · · · · · · · · · · · · · · · · ·	
Richmond 24 2.3 Irvine 5 3.5 Mominsville 31 2.1 Sacttsville 6 2.8 Renderson 57 2.1 Sacttsville 6 2.8 Renderson 19 1.6 Barbourville 5 2.7 Springfield 4 2.8 Jeffersontown 19 1.6 Barbourville 5 2.8 Slively 35 4.5 Sacttsville 5 2.5 Slively 35 4.5 Sacttsville 6 2.2 Sacttsville 6 2.2 Independence 18 3.4 Sacttsville 3 2.1 Sacttsville 4 1.6 Sacttsville 3 1.6 Sacttsville 5 2.1 Sacttsville 6 2.2 Sacttsville 6 2.2 Sacttsville 6 1.6 Sacttsville 7 2.2 Sacttsville 6 1.6 Sacttsville 7 2.2 Sacttsville 6 1.6 Sacttsville 7 2.2 Sacttsville 7 2.2 Sacttsville 8 1.7 Sacttsville 8 1.7 Sacttsville 8 1.7 Sacttsville 9 2.9 Sactt					ton /	
Georgetown 23 4.0 Greenville 5 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Independence 18 3.4 Tompkinsville 3 2.1 Nicholasville 22 3.2 Wilmore 4 1.9 Elizabethtown 20 2.2 Leitchfield 4 1.6 Florence 19 2.0 Morganfield 3 1.6 Middlesboro 11 1.9 Jenkins 2 1.5 Murray 10 1.4 Providence 3 1.5 Danville 9 1.4 Highland Heights 3 1.4 Glasgow 8 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Erlanger 8 1.0 Lakeside Park 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Lagrange 2 1.0 Layenge 2 1.0 Fort Wright 12 3.7 Larcaster 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Fort Wright 12 3.7 Lancaster 1 0.6 Married 1 3.4 Mount Sterling 3 3.5 Mount Sterling 9 3.1 Maysville 9 2.9 Maysville 9 2.9 Maysville 10 2.8 Maysville 9 2.9 Maysville 10 2.8 Maysville 8 1.7 Mount Mashington 6 2.3 Morehead 9 2.2 Monticello 6 2.2 Fort Mitchell 8 2.2 Bardstown 7 2.1 Mazard 5 1.8 Frinceton 6 1.7 Campbellsville 8 1.7 Mussellville 6 1.6 Elsmere 5 1.5 Elserea 7 1.5 Flatwoods 5 1.3 Franklin 5 1.3 Edgewood 5 1.2 Flatwoods 1 1.3 Fla	 				5	
Georgetown 23 4.0 Greenville 5 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Independence 18 3.4 Tompkinsville 3 2.1 Nicholasville 22 3.2 Wilmore 4 1.9 Elizabethtown 20 2.2 Leitchfield 4 1.6 Florence 19 2.0 Morganfield 3 1.6 Middlesboro 11 1.9 Jenkins 2 1.5 Murray 10 1.4 Providence 3 1.5 Danville 9 1.4 Highland Heights 3 1.4 Glasgow 8 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Erlanger 8 1.0 Lakeside Park 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Lagrange 2 1.0 Layenge 2 1.0 Fort Wright 12 3.7 Larcaster 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Fort Wright 12 3.7 Lancaster 1 0.6 Married 1 3.4 Mount Sterling 3 3.5 Mount Sterling 9 3.1 Maysville 9 2.9 Maysville 9 2.9 Maysville 10 2.8 Maysville 9 2.9 Maysville 10 2.8 Maysville 8 1.7 Mount Mashington 6 2.3 Morehead 9 2.2 Monticello 6 2.2 Fort Mitchell 8 2.2 Bardstown 7 2.1 Mazard 5 1.8 Frinceton 6 1.7 Campbellsville 8 1.7 Mussellville 6 1.6 Elsmere 5 1.5 Elserea 7 1.5 Flatwoods 5 1.3 Franklin 5 1.3 Edgewood 5 1.2 Flatwoods 1 1.3 Fla					lls 5	3.0
Georgetown 23 4.0 Greenville 5 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Independence 18 3.4 Tompkinsville 3 2.1 Nicholasville 22 3.2 Wilmore 4 1.9 Elizabethtown 20 2.2 Leitchfield 4 1.6 Florence 19 2.0 Morganfield 3 1.6 Middlesboro 11 1.9 Jenkins 2 1.5 Murray 10 1.4 Providence 3 1.5 Danville 9 1.4 Highland Heights 3 1.4 Glasgow 8 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Erlanger 8 1.0 Lakeside Park 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Lagrange 2 1.0 Layenge 2 1.0 Fort Wright 12 3.7 Larcaster 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Fort Wright 12 3.7 Lancaster 1 0.6 Married 1 3.4 Mount Sterling 3 3.5 Mount Sterling 9 3.1 Maysville 9 2.9 Maysville 9 2.9 Maysville 10 2.8 Maysville 9 2.9 Maysville 10 2.8 Maysville 8 1.7 Mount Mashington 6 2.3 Morehead 9 2.2 Monticello 6 2.2 Fort Mitchell 8 2.2 Bardstown 7 2.1 Mazard 5 1.8 Frinceton 6 1.7 Campbellsville 8 1.7 Mussellville 6 1.6 Elsmere 5 1.5 Elserea 7 1.5 Flatwoods 5 1.3 Franklin 5 1.3 Edgewood 5 1.2 Flatwoods 1 1.3 Fla		57	2.1		ille 6	
Georgetown 23 4.0 Greenville 5 2.1 Madisonville 30 3.7 Beaver Dam 3 2.1 Independence 18 3.4 Tompkinsville 3 2.1 Nicholasville 22 3.2 Wilmore 4 1.9 Elizabethtown 20 2.2 Leitchfield 4 1.6 Florence 19 2.0 Morganfield 3 1.6 Middlesboro 11 1.9 Jenkins 2 1.5 Murray 10 1.4 Providence 3 1.5 Danville 9 1.4 Highland Heights 3 1.4 Glasgow 8 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Flemingsburg 2 1.3 Radcliff 12 1.2 Dawson Springs 2 1.3 Erlanger 8 1.0 Lakeside Park 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Cumberland 2 1.3 Fort Thomas 7 0.9 Lagrange 2 1.0 Layenge 2 1.0 Fort Wright 12 3.7 Larcaster 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Corbin 15 4.0 Southgate 1 0.6 Fort Wright 12 3.7 Lancaster 1 0.6 Married 1 3.4 Mount Sterling 3 3.5 Mount Sterling 9 3.1 Maysville 9 2.9 Maysville 9 2.9 Maysville 10 2.8 Maysville 9 2.9 Maysville 10 2.8 Maysville 8 1.7 Mount Mashington 6 2.3 Morehead 9 2.2 Monticello 6 2.2 Fort Mitchell 8 2.2 Bardstown 7 2.1 Mazard 5 1.8 Frinceton 6 1.7 Campbellsville 8 1.7 Mussellville 6 1.6 Elsmere 5 1.5 Elserea 7 1.5 Flatwoods 5 1.3 Franklin 5 1.3 Edgewood 5 1.2 Flatwoods 1 1.3 Fla					ield 4	
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TABLE 51. TRUC	CK ACCIDENT RATES BY COUN	TY AND POPULATION	N CATEGORY (IN ORD	ER OF DECREASING PERCENT	rages)
	NUMBER OF ANNUAL	ACCIDENT RATE			ACCIDENT RATE
	TRUCK	(ACCIDENTS		TRUCK	(ACCIDENTS
	ACCIDENTS	PER 10,000		ACCIDENTS	PER 10,000
COUNTY	(1986-1990)	POPULATION)	COUNTY	(1986-1990)	POPULATION)
	CATEGORY UNDER 10,000		POPULATION	CATEGORY 15,000-24,999	(CONTINUED)
Gallatin	161	59.7	Breathitt	237	30.2
Carroll	227	48.9	Woodford	297	29.8
Ballard	158	40.0	Bourbon	285	29.6
Wolfe	103	31.7	Rowan	283	27.8
Lyon	85	25.7	Harrison	223	27.4
Bath	108	22.3	Montgomery	262	26.8
Fulton	91	22.0	Logan	326	26.7
Trimble	65	21.3	Mercer	232	24.2
Livingston	96	21.2	Johnson	277	23.8
Hancock	82	20.9	Ohio	251	23.8
McLean	94	19.5	Grayson	245	23.3
Carlisle	47	17.9	Lincoln	226	22.5
Lee	61	16.4	Union	183	22.1
Clinton	74	16.2	Clay	238	21.9
Metcalfe	70	15.6	Knott	194	21.7
Owen	67	14.8	Adair	158	20.6
Hickman	41	14.7	Carter	248	20.4
Bracken	56	14.4	Breckinridge	152	18.6
Crittenden	66	14.4	Taylor	186	17.6
Menifee	34	13.4	Marion	141	17.1
Elliott	43	13.3	Meade	171	14.1
Owsley	32	12.7	Wayne	113	12.9
Nicholas	35	10.4	McCreary	62	7.9
Spencer	33	9.7	POPULATION	CATEGORY 25,000-50,000	
Cumberland	25	7.4	Floyd	867	39.8
Robertson	5	4.7	Perry	600	39.6
POPULATION	CATEGORY 10,000-14,999		Henderson	823	38.2
Henry	286	44.6	Laurel	825	38.0
Webster	266	38.1	Whitley	539	32.3
Hart	281	37.7	Hopkins	743	32.2
Lawrence	248	35.4	Barren	536	31.5
Rockcastle	252	34.0	Clark	447	30.3
Martin	205	32.7	Harlan	540	29.5
Anderson	194	26.6	Bell	462	29.3
Caldwell	169	25.5	Letcher	380	28.1
Trigg	125	24.1	Franklin	615	28.1
Magoffin	156	23.9	Marshall	380	27.9
Pendleton	136	22.6	Jessamine	419	27.5
Powell	132	22.6	Muhlenberg	427	27.3
Butler	125	22.2	Bullitt	617	25.9
Larue	127	21.7	Boyle	324	25.3
Allen	156	21.3	Oldham	387	23.3
Washington	110	21.1	Nelson	342	23.0
Fleming	128	20.8	Pulaski	549	22.2
Leslie	137	20.1	Graves	371	22.1
Todd	95	17.4	Greenup	338	18.4
Green	85	16.4	Knox	272	18.3
Lewis	102	15.7	Calloway	248	16.1
Garrard	86	14.9	POPULATION	CATEGORY OVER 50,000	
Morgan	80	13.7	Boone	2,065	71.7
Edmonson	69	13.3	Pike	1,584	43.6
Jackson	76	12.7	Madison	1,239	43.1
Casey	79	11.1	Boyd	1,017	39.8
Russell	79	10.7	Fayette	4,197	37.2
Monroe	53	9.3	Warren	1,372	35.8
Estill	66	9.0	Kenton	2,539	35.8
POPULATION	CATEGORY 15,000-24,999		Jefferson	11,723	35.3
Simpson	378	49.9	McCracken	913	29.0
Shelby	599	48.3	Hardin	1,260	28.2
Grant	361	45.9	Daviess	1,160	26.6
Scott	531	44.5	Campbell	1,088	25.9
Mason	305	36.6	Christian	802	23.3

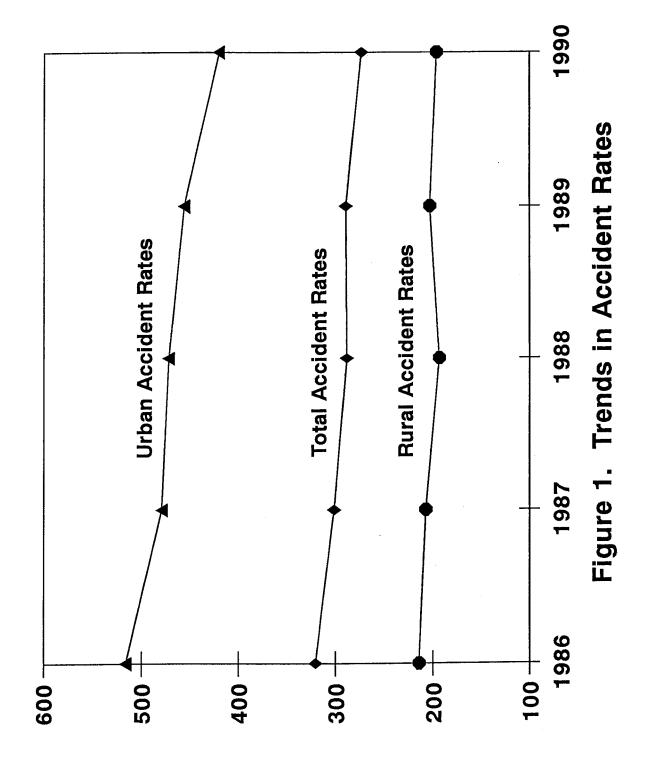
TABLE 52. ACCIDENTS INVOLVING VEHICLE DEFECT BEFORE
AND AFTER REPEAL OF VEHICLE INSPECTION LAW

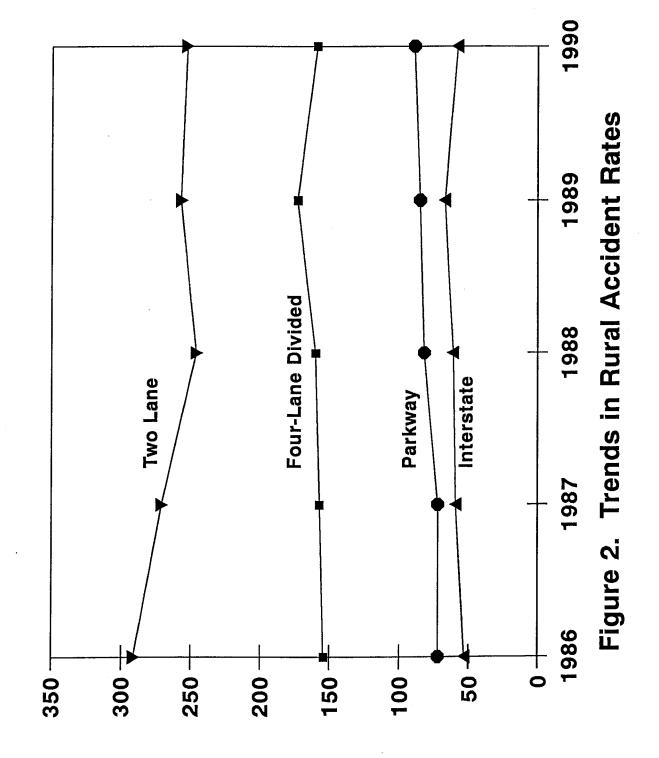
		NUMBER OF	PERCENT OF
	MOMAT WILDER	ACCIDENTS	ALL ACCIDENTS
MINE DEDICE	TOTAL NUMBER	INVOLVING	INVOLVING
TIME PERIOD	OF ACCIDENTS*	VEHICLE DEFECTS	VEHICLE DEFECTS
October 1976 - May 1978	246,500	14,440	5.86
(20 Months Before			
Repeal of Law)			
June 1978 - December 1979	233,155	16,527	7.09
(19 Months After	233,133	10,327	7.03
•			
Repeal of Law)			
January 1980 -	124,503	9,176	7.37
December 1980	124,505	3,170	7.37
December 1980			
January 1981 -	121,810	9,196	7.55
December 1981	121,010	3,130	7.33
December 1981			
January 1982 -	121,080	9,074	7.49
December 1982	222,000	3,5	
December 1702			
January 1983 -	124,228	9,307	7.49
December 1983	223,223	2,221	
2000			
January 1984 -	133,240	9,644	7.24
December 1984	220,220	2,222	
January 1985 -	137,877	9,415	6.83
December 1985		2,12-	
	·		
January 1986 -	135,173	9,866	7.30
December 1986		• • • • • • • • • • • • • • • • • • • •	
January 1987 -	138,031 **	9,812	7.11
December 1987		• • • • • • • • • • • • • • • • • • • •	
January 1988 -	143,159 **	9,380	6.55
December 1988	•	·	
January 1989 -	151,422	9,591	6.33
December 1989	·	·	
January 1990-	148,158	9,252	6.24
December 1990	·	•	

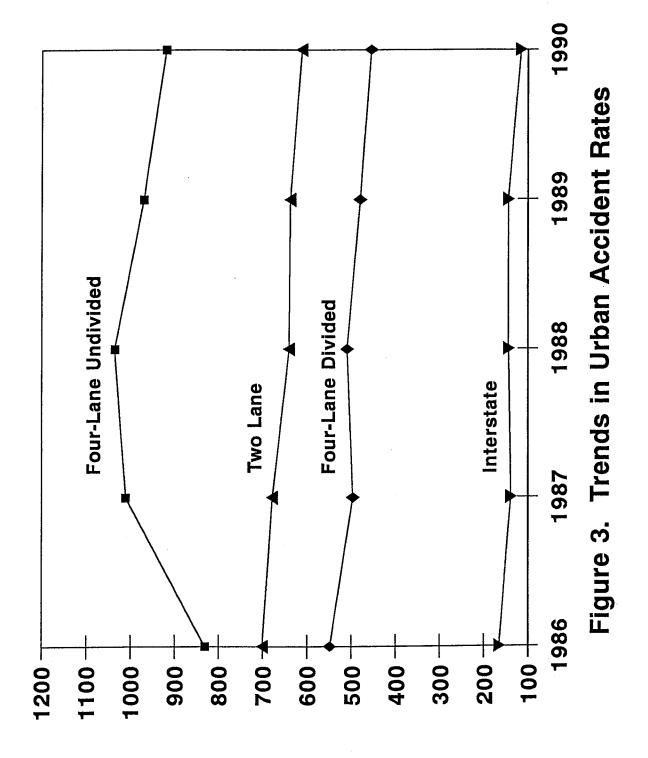
^{*} Does not include accidents in which the vehicle defect code was unknown.

^{**} Total accidents based on factor obtained from previous years' data.

Accidents / 100 MVM







APPENDIX A

STATEWIDE ACCIDENT RATES AS A FUNCTION OF SEVERAL VARIABLES

			•

Highways are grouped into various system classifications. Three common types of grouping include 1) functional classification, 2) federal-aid system, and 3) administrative classification. Statewide accident rates were determined for each of those groupings. Following is a summary of the findings.

Average statewide rates by functional classification are listed in Table A-1. Highways were grouped into a rural or urban category and then into systems such as arterial, collector, and local. Rates were determined considering all accidents, injury accidents only, and fatal accidents only. The highest overall accident rates were for urban principal arterials (non-interstate or freeway) followed by urban minor arterials and urban collectors. The lowest overall rate was for rural principal arterials (interstate) followed by urban principal arterials (interstate and other freeway). Urban principal arterials (other freeway) and the rural local system also had relatively low total accident rates. Injury accident rates for the various categories were ordered similar to overall accident rates. However, the ordering for the fatal accident rates was different. The highest fatal accident rates were for rural collectors and minor arterials. The lowest fatal accident rates were for urban principal arterials (interstate and other freeway), rural principal arterials (interstate), and the local urban system.

Statewide accident rates by federal-aid system are shown in Table A-2. The highest rate was for the federal-aid urban system and the lowest rate was for the interstate system. The federal-aid primary (non-interstate), federal-aid secondary (rural), and non-federal-aid systems had similar rates.

Statewide accident rates by administrative classification are listed in Table A-3. The rate for the primary system was lowest with the rate for the secondary system highest. Rates for the rural secondary and unclassified systems were between these two levels and were similar.

The benefits of providing a median and increasing the median width are shown in Table A-4. The accident rate is decreased by over one-half when comparing a highway which is divided with a median width of less than 30 feet to an undivided highway. The accident rate is decreased even farther (by over one-half) when comparing a highway which is divided with a median width of more than 30 feet to a highway with a median width of less than 30 feet.

The effect of access control is described in Table A-5. The large reduction in the accident rate for highways with full control of access compared to those with partial or no access control is shown. However, the accident rate for partial control of access is not dramatically below that for no access control.

An analysis of accident rates for rural highways by federal-aid system and terrain is presented in Table A-6. Each county was given a terrain classification as either flat, rolling, or mountainous since a classification was not available for each

road segment. Considering the entire system, the lowest rate was for flat terrain with the mountainous terrain next and rolling terrain highest.

Rates by rural-urban designation are shown in Table A-7. The lowest rate was for rural areas. The highest rate was for small urban areas rather than urbanized areas, although the average traffic volume was much higher in urbanized areas. The presence of more freeway-type highways in the urbanized areas may account for this finding.

The summary of accident rates by route signing identifier reveals that US-signed routes have a higher rate than state-marked routes, with interstates having a much lower rate (Table A-8). The US-signed routes have a higher average volume than state-marked routes, which may account for the higher accident rate.

The relationship between accident rate and traffic volume for various federal-aid highway classifications is illustrated in Table A-9. For interstates, which have high design criteria, the accident rate was fairly constant up until the volume range of over 40,000 vehicles per day where a large increase occurred. For each of the other highway classifications, the highest rate was for the lowest volume category (AADT under 1,000). One reason for a high rate at low-volume locations is the fact that a few accidents may increase the rate substantially. Lower volume roads also are constructed to less stringent design standards, which could contribute to a higher accident rate. For the federal-aid urban category, there was a constant decrease in accident rate as volume increased. There was no definite pattern for the other highway classifications.

The percentage of accidents occurring during wet or snow or icy pavement conditions or during darkness by rural or urban highway type classification is given in Table A-10. There was not a large fluctuation in the percentage of accidents occurring during wet pavement conditions with an overall percentage of 21 percent. There were large variations in the percentage of accidents occurring on the various highway types during snow or icy conditions. This percentage would tend to change by year depending on the amount of snowfall any given year. The percentage on rural roads (5.4 percent) was higher than on urban roads (2.8 percent). The highest percentages were on interstates and parkways with the highest being 13 percent. There were also large variations in the percentage of accidents occurring during darkness. The percentage was higher on rural roads (32 percent) than urban roads (23 percent). The highest percentages were on interstates and parkways with the highest being 44 percent. This would be expected given the level of nighttime driving on these types of roadway.

TABLE A-1. STATEWIDE ACCIDENT RATES BY FUNCTIONAL CLASSIFICATION (1986-1990 DATA)

		AVERAGE			ACCIDENT RAT	ES
	FUNCTIONAL	TOTAL	AVERAGE		(ACC PER 100	MVM)
LOCATION	CLASSIFICATION	MILEAGE	AADT	ALL	INJURY	FATAL
Rural	Principal Arterial, Interstate	577	19,810	59	18	0.8
	Principal Arterial, Other	1,537	5,930	157	54	2.3
	Minor Arterial	1,777	3,630	270	89	3.2
	Major Collector	7,297	1,970	286	102	3.7
	Minor Collector	9,225	630	291	110	4.1
	Local System	4,090	660	159	54	2.1
Urban	Principal Arterial, Interstate	197	47,180	130	31	0.6
	Principal Arterial, Other Freeway	86	15,350	137	39	0.6
	Principal Arterial, Other	454	15,680	750	181	1.7
	Minor Arterial	780	8,750	683	173	1.7
	Collector	268	3,950	515	141	1.6
	Local System	118	2,970	281	77	0.9

TABLE A-2. STATEWIDE ACCIDENT RATES BY FEDERAL-AID SYSTEM

(1986-1990 DATA)		moma T	ATTENACE	ACCEPTANT DATE
FEDERAL-AID		TOTAL	AVERAGE	ACCIDENT RATE
SYSTEM	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Interstate	34379	765	27130	91
Federal-Aid Primary	133654	3772	5940	327
(other than Interstate)				
Federal-Aid Urban	122843	1126	8590	696
Federal-Aid Secondary	75240	7285	1980	286
(Rural only)		•		
Non-Federal Aid	41086	13462	670	251

TABLE A-3. STATEWIDE ACCIDENT RATES BY ADMINISTRATIVE CLASSIFICATION

(1986-1990 DATA)				
ADMINISTRATIVE		TOTAL	AVERAGE	ACCIDENT RATE
CLASSIFICATION	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Primary	192,667	4,638	10,700	213
Secondary	158,238	7,968	2,650	411
Rural Secondary	46,421	11,208	750	302
Unclassified	9,854	2,531	740	286

TABLE A-4. STATEWIDE ACCIDENT RATES BY MEDIAN TYPE (RURAL ROADS)

(WITH FOUR OR MORE	<u> LANES)(1986-1990 DATZ</u>	A)		
		TOTAL	AVERAGE	ACCIDENT RATE
MEDIAN TYPE	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Undivided, No Median	3,143	52	8,630	385
Divided, Median Less than 30 Feet, No Barrier	6,207	272	8,750	143
Divided, Median Greater than 30 Feet, No Barrier	16,156	1,081	12,290	67

TABLE A-5. STATEWIDE ACCIDENT RATES BY ACCESS CONTROL

(1986-1990 DATA	.)			
		TOTAL	AVERAGE	ACCIDENT RATE
MEDIAN TYPE	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Full Control	42,239	1,487	16,830	93
Partial Control	4.691	135	5,600	340
No Control	360,213	24,789	2,030	392

TABLE A-6. ACCIDENT RATES FOR RURAL HIGHWAYS BY FEDERAL-AID SYSTEM AND TERRAIN (1986-1990 DATA)

	ACCIDENT RATE					
		(ACC/100 MVM) E	Y			
	TER	RAIN CLASSIFICA	TION			
FEDERAL-AID SYSTEM	FLAT	ROLLING	MOUNTAINOUS			
Interstate	50	70	59			
Rederal-Aid Primary	172	223	188			
ederal-Aid Secondary	223	304	279			
Non-Federal Aid	237	243	244			
All	180	221	210			

TABLE A-7. STATEWIDE ACCIDENT RATES BY RURAL-URBAN DESIGNATION (1986-1990 DATA)

		TOTAL	AVERAGE	ACCIDENT RATE
AREA TYPE	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Rural	184,417	24,505	2,040	202
Small Urban Area	70,952	888	8,050	544
Urbanized Area	151,831	1,020	18,630	438

TABLE A-8. STATEWIDE ACCIDENT RATES BY ROUTE SIGNING IDENTIFIER (1986-1990 DATA)

ROUTE SIGNING		TOTAL	AVERAGE	ACCIDENT RATE
IDENTIFIER	ACCIDENTS	MILEAGE	AADT	(ACC/100 MVM)
Interstate	34,379	776	26,750	91
us	175,065	3,529	6,130	444
State	197,621	22,106	1,530	321

TABLE A-9. RELATIONSHIP BETWEEN ACCIDENT RATE AND TRAFFIC VOLUME (1986-1990 DATA)

VOLUME	ACCIDENT RATE (ACC/100 MVM)				
RANGE		FEDERAL-AID	FEDERAL-AID	FEDERAL-AID	NON-FEDERAL
(AADT)	INTERSTATE	PRIMARY	URBAN	SECONDARY	AID
0 - 999	*	813	1,623	495	350
1,000-2,499	*	211	851	332	284
2,500-4,999	*	211	763	234	302
5,000-9,999	60	251	722	162	120
10,000-19,999	62	359	718	237	317
20,000-29,999	60	682	701	*	*
30,000-39,999	62	598	527	*	*
40,000 or more	150	292	373	*	*

^{*} No data in this volume range.

TABLE A-10. PERCENTAGE OF ACCIDENTS OCCURRING DURING WET OR SNOW OR ICE PAVEMENT CONDITIONS OR DURING DARKNESS BY RURAL AND URBAN HIGHWAY TYPE CLASSIFICATION (1986-1990 DATA)

	DARKNESS BY RURAL AND URBAN HIGHWAY TYPE			
			PERCENT OF ALL ACCI	DENTS
		WET	SNOW OR ICE	
LOCATION	HIGHWAY TYPE	PAVEMENT	CONDITIONS	DARKNESS
RURAL	One-Lane	22	5.2	27
	Two-lane	22	4.8	31
	Three-Lane	29		21
	Four-Lane Divided	23	4.7	27
	(Non-Interstate or Parkway)			
	Four-Lane Undivided	20	2.7	23
	Interstate	17	11.7	42
	Parkway	17	11.0	44
	All Rural	. 21	5.4	32
URBAN	Two-Lane	21	2.7	23
	Three-Lane	23	1.8	24
	Four-Lane Divided	21	2.4	21
	(Non-Interstate or Parkway)	••		20
	Four-Lane Undivided	21	1.9	20
	Interstate	23	6.0	31
	Parkway	18	13.2	37
	All Urban	21	2.8	23

APPENDIX B CRITICAL "NUMBERS OF ACCIDENTS" TABLES

TABLE B-1. CRITICAL NUMBERS OF ACCIDENTS ON RURAL HIGHWAYS BY HIGHWAY TYPE
AND SECTION LENGTH (FIVE-YEAR PERIOD) (1986-1990)

		CRITICA	L NUMBE	R OF ACC	IDENTS		
			FOR THE	GIVEN			
HIGHWAY		SECT	TION LEN	GTH (MII	ES)		
TYPE	0.4	1	2	5	10	15	20
One-Lane	4	8	12	24	42	59	76
Two-Lane	7	14	24	50	90	129	167
Three-Lane	24	51	92	210	400	587	772
Four-Lane Divided (Non-Interstate and Parkway)	18	37	66	147	278	405	531
Four-Lane Undivided	40	86	160	372	715	1,055	1,392
Interstate	17	34	60	134	253	368	483
Parkway	8	14	24	51	93	134	174

TABLE B-2. CRITICAL NUMBERS OF ACCIDENTS ON URBAN HIGHWAYS BY HIGHWAY TYPE

AND SECTION LENGTH (FI	<u>VE-YEAR PER</u>	(IOD) (1	<u>986-199</u>	0)		
		CRITICA	L NUMB	ER OF AC	CIDENTS	
			FOR TH	E GIVEN		
HIGHWAY		SECI	ION LE	NGTH (MI	LES)	
TYPE	0.4	1	2	5	8	10
Two-Lane	46	101	189	441	688	852
Three-Lane	52	115	215	505	789	977
Four-Lane Divided	96	219	417	996	1,567	1,946
(Non-Interstate and Parkway)						
Four-Lane Undivided	149	346	665	1,603	2,532	3,148
Interstate	68	153	290	686	1,076	1,334
Parkway	14	28	49	107	164	201

APPENDIX C

CRITICAL ACCIDENT RATE TABLES FOR HIGHWAY SECTIONS

		•	
•			

TABLE C-1. CRITICAL ACCIDENT RATES FOR RURAL ONE-LANE SECTIONS
(FIVE-YEAR PERIOD)(1986-1990)

		CRITICAL ACCI	ENT RATE (ACC.	/100 MVM) FO	R THE
		GIVEN S	ECTION LENGTH	(MILES)	
AADT	0.5	1	2	5	10
100	2,583	1,824	1,344	957	776
200	1,824	1,344	1,032	776	654
300	1,518	1,146	902	699	601
400	1,344	1,032	827	654	570
500	1,229	957	776	623	549
700	1,083	860	711	584	522
1,000	957	776	654	549	498
1,500	842	699	601	517	475
2,000	776	654	570	498	462
2,500	731	623	549	485	453
3,000	699	601	534	475	446

TABLE C-2. CRITICAL ACCIDENT RATES FOR RURAL TWO-LANE SECTIONS

		CRITICAL ACC	IDENT RATE (AC	C/100 MVM) F	OR THE	
		GIV	EN SECTION LEN	GTH (MILES)		
AADT	0.5	1	2	5	10	20
100	2,190	1,512	1,089	753	598	494
300	1,242	917	706	532	449	393
500	989	753	598	468	406	362
1,000	753	598	494	406	362	332
1,500	655	532	449	378	344	319
2,000	598	494	423	362	332	311
3,000	532	449	393	344	319	302
4,000	494	423	375	332	311	297
5,000	468	406	362	325	306	293
6,000	449	393	353	319	302	290
7,000	435	383	346	315	299	288
8,000	423	375	341	311	297	287
9,000	414	368	336	309	295	285
10,000	406	362	332	306	293	284

TABLE C-3. CRITICAL ACCIDENT RATES FOR RURAL THREE-LANE SECTIONS

	CRITI		RATE (ACC/100 TION LENGTH (M	MVM) FOR THE (ILES)	}
AADT	0.5	1	2	3	5
100	2,275	1,579	1,143	965	796
300	1,301	965	747	656	567
500	1,040	796	635	567	501
1,000	796	635	527	481	435
1,500	694	567	481	444	407
2,000	635	527	454	422	390
3,000	567	481	422	396	371
4,000	527	454	403	381	359
5,000	501	435	390	371	351
6,000	481	422	381	363	345
7,000	466	411	374	357	341
8,000	454	403	368	353	337
9,000	444	396	363	349	334
10,000	435	390	359	345	332

TABLE C-4. CRITICAL ACCIDENT RATES FOR RURAL FOUR-LANE DIVIDED SECTIONS
(NON-INTERSTATE AND PARKWAY) SECTIONS (FIVE-YEAR PERIOD)(1986-1990)

	CRITIC	AL ACCIDENT R	ATE (ACC/100	MVM) FOR THE	<u> </u>
		GIVEN SECTIO		LES)	
AADT	0.5	1	2	5	10
500	754	558	430	325	275
1,000	558	430	346	275	240
2,500	399	325	275	231	210
5,000	325	275	240	210	196
7,500	293	253	225	201	189
10,000	275	240	216	196	185
15,000	253	225	206	189	181
20,000	240	216	200	185	178
30,000	225	206	193	181	175
40,000	216	200	188	178	173
50,000	210	196	185	176	172

TABLE C-5. CRITICAL ACCIDENT RATES FOR RURAL FOUR-LANE UNDIVIDED SECTIONS

	(FIVE-YEAR PERIOD)	(1986-1990)				
		CRITIC	CAL ACCIDENT	RATE (ACC/100	MVM) FOR THE	2
					LES)	
AADT		0.5	1	2	5	10
500		1,341	1,053	861	698	619
1,000		1,053	861	730	619	564
2,500		813	698	619	550	516
5,000		698	619	564	516	492
7,500	•	648	584	540	501	482
10,000		619	564	526	492	475
20,000		564	526	499	475	464
30,000		540	509	487	468	458
40,000		526	499	480	464	455
50,000		516	492	475	461	453

TABLE C-6. CRITICAL ACCIDENT RATES FOR RURAL INTERSTATE SECTIONS
(FIVE-YEAR PERIOD)(1986-1990)

		CRITICAL ACC	IDENT RATE (A	CC/100 MVM) F	OR THE	
		GIV	EN SECTION LE	NGTH (MILES)		
AADT	0.5	1	2	5	10	20
500	464	323	234	164	131	109
1,000	323	234	178	131	109	94
2,500	213	164	131	104	90	81
5,000	164	131	109	90	81	75
7,500	143	117	100	84	77	72
10,000	131	109	94	81	75	70
20,000	109	94	84	75	70	67
30,000	100	87	79	. 72	68	66
40,000	94	84	76	70	67	65
50,000	90	81	75	69	66	64

TABLE C-7. CRITICAL ACCIDENT RATES FOR RURAL PARKWAY SECTIONS (FIVE-YEAR PERIOD)(1986-1990)

		CRITICAL ACC	DENT RATE (AC	C/100 MVM) F	OR THE	
		GIVI	N SECTION LEN	GTH (MILES)		
AADT	0.5	1	2	5	10	20
400	632	445	327	232	188	158
700	474	346	263	195	162	140
1,000	401	299	232	177	150	132
1,500	336	256	204	160	139	124
2,000	299	232	188	150	132	119
3,000	256	204	169	139	124	114
4,000	232	188	158	132	119	111
5,000	216	177	150	127	116	109
7,000	195	162	140	122	112	106
10,000	177	150	132	116	109	103
20,000	150	132	119	109	103	99
40,000	132	119	111	103	99	97

TABLE C-8. CRITICAL ACCIDENT RATES FOR URBAN TWO-LANE SECTIONS

	CRI	TICAL ACCIDEN	T RATE (ACC/10	0 MVM) FOR T	HE
		GIVEN SECT	ION LENGTH (MI	LES)	
AADT	0.5	1	2	5	10
500	1,735	1,395	1,166	971	875
1,000	1,395	1,166	1,010	875	809
2,500	1,109	971	875	792	750
5,000	971	875	809	750	721
7,500	911	833	779	732	708
10,000	875	809	762	721	701
15,000	833	779	742	708	692
20,000	809	762	730	701	686
30,000	779	742	715	692	680
40,000	762	730	707	686	676
50,000	750	721	701	683	674

TABLE C-9. CRITICAL ACCIDENT RATES FOR URBAN THREE-LANE SECTIONS
(FIVE-YEAR PERIOD)(1986-1990)

	CRIT	ICAL ACCIDENT	RATE (ACC/100	MVM) FOR TH	E
		GIVEN SEC	TION LENGTH (N	(ILES)	
AADT	0.5	1	2	5	10
500	1,537	1,223	1,012	832	745
1,000	1,223	1,012	868	745	684
2,500	959	832	745	668	631
5,000	832	745	684	631	604
10,000	745	684	641	604	585
15,000	706	657	623	592	577
20,000	684	641	612	585	572
25,000	668	631	604	581	569
30,000	657	623	598	577	566
40,000	641	612	591	572	563
50,000	631	604	585	569	561

TABLE C-10. CRITICAL ACCIDENT RATES FOR URBAN FOUR-LANE DIVIDED SECTIONS
(NON-INTERSTATE AND PARKWAY) (FIVE-YEAR PERIOD) (1986-1990)

	CRITIC	AL ACCIDENT F	RATE (ACC/100	MVM) FOR THE	
		GIVEN SECTIO	N LENGTH (MI	LES)	
AADT	0.5	1	2	5	10
1,000	1,147	945	807	688	630
2,500	894	772	688	616	579
5,000	772	688	630	579	554
10,000	688	630	590	554	536
15,000	652	605	572	543	528
20,000	630	590	561	536	524
25,000	616	579	554	532	520
30,000	605	572	549	528	518
40,000	590	561	541	524	515
50,000	579	554	536	520	513
60,000	572	549	532	518	511

TABLE C-11. CRITICAL ACCIDENT RATES FOR URBAN FOUR-LANE UNDIVIDED SECTIONS
(FIVE-YEAR PERIOD) (1986-1990)

(FIVE-YEAR PERIOD) (1986-1990)						
	CRITI	CAL ACCIDENT	RATE (ACC/100	MVM) FOR TH	Œ	
		GIVEN SECT	ION LENGTH (MILES)		
AADT	0.5	1	2	5	10	
1,000	1,826	1,556	1,370	1,210	1,131	
2,500	1,488	1,324	1,210	1,111	1,061	
5,000	1,324	1,210	1,131	1,061	1,026	
10,000	1,210	1,131	1,075	1,026	1,002	
15,000	1,160	1,096	1,051	1,011	991	
20,000	1,131	1,075	1,036	1,002	984	
25,000	1,111	1,061	1,026	995	980	
30,000	1,096	1,051	1,019	991	977	
40,000	1,075	1,036	1,009	984	972	
50,000	1,061	1,026	1,002	980	969	
60,000	1,051	1,019	996	977	967	

TABLE C-12. CRITICAL ACCIDENT RATES FOR URBAN INTERSTATE SECTIONS
(FIVE-YEAR PERIOD)(1986-1990)

	CRITICA	L ACCIDENT RA	ATE (ACC/100 N	IVM) FOR THE	
		GIVEN SECTION	ON LENGTH (MI	LES)	
AADT	0.5	1	2	5	10
1,000	513	392	312	246	213
5,000	293	246	213	186	172
10,000	246	213	191	172	162
20,000	213	191	176	162	156
30,000	199	182	169	158	153
40,000	191	176	165	156	151
50,000	186	172	162	154	150
60,000	182	169	160	153	149
70,000	178	167	159	152	148
80,000	176	165	157	151	148
90,000	174	164	156	150	147
100,000	172	162	156	150	147

TABLE C-13. CRITICAL ACCIDENT RATES FOR URBAN PARKWAY SECTIONS
(FIVE-YEAR PERIOD)(1986-1990)

		CRITICAL ACC	DENT RATE (A	CC/100 MVM) F	OR THE	
		GIVEN	SECTION LENG	TH (MILES)		
AADT	0.5	1	2	5	10	20
500	749	554	427	322	272	238
1,000	554	427	343	272	238	214
2,500	396	322	272	229	208	193
5,000	322	272	238	208	193	183
7,500	290	250	223	199	187	179
10,000	272	238	214	193	183	176
15,000	250	223	204	187	179	173
20,000	238	214	198	183	176	171
30,000	223	204	190	179	173	169
40,000	214	198	186	176	171	167
50,000	208	193	183	174	170	167

APPENDIX D

CRITICAL ACCIDENT RATE TABLES FOR "SPOTS" (SPOT IS DEFINED AS 0.3 MILE IN LENGTH)

TABLE D-1. CRITICAL ACCIDENT RATES FOR "SPOTS" ON RURAL ONE-LANE, TWO-LANE,
AND THREE-LANE HIGHWAYS (FIVE-YEAR PERIOD) (1986-1990)

	CRITICAL	ACCIDENT RATE (ACC/MV	M)
		BY HIGHWAY TYPE	
AADT	ONE-LANE	TWO-LANE	THREE-LANE
100	10.29	8.87	9.18
500	4.55	3.72	3.90
1,000	3.44	2.75	2.90
2,500	2.53	1.96	2.08
5,000	2.10	1.60	1.70
7,500	1.91	1.44	1.54
10,000	1.80	1.35	1.44
15,000	1.68	1.24	1.33
20,000	1.60	1.18	1.27

TABLE D-2. CRITICAL ACCIDENT RATES FOR "SPOTS" ON RURAL FOUR-LANE HIGHWAYS, INTERSTATES,
AND PARKWAYS (FIVE-YEAR PERIOD) (1986-1990)

		CRITICAL ACCIDENT	RATE (ACC/MV)	
		BY HIGHWA	Y TYPE	
		FOUR-LANE DIVIDED		
	FOUR-LANE	(NON-INTERSTATE		
AADT	UNDIVIDED	AND PARKWAY)	INTERSTATE	PARKWAY
500	4.94	2.90	1.86	2.22
1,000	3.76	2.08	1.26	1.54
2,500	2.79	1.43	0.80	1.01
5,000	2.34	1.13	0.59	0.77
10,000	2.02	0.93	0.46	0.61
15,000	1.89	0.84	0.40	0.54
20,000	1.81	0.79	0.37	0.51
30,000	1.71	0.73	0.33	0.46
40,000	1.66	0.70	0.31	0.43
50,000	1.62	0.68	0.30	0.42

TABLE D-3. CRITICAL ACCIDENT RATES FOR "SPOTS" ON URBAN OTHER, TWO-LANE, AND THREE-LANE HIGHWAYS (FIVE-YEAR PERIOD) (1986-1990)

	CRITICAL ACCIDENT	RATE (ACC/MV)
	BY HIGHWA	Y TYPE
AADT	TWO-LANE	THREE-LANE
500	6.27	5.61
1,000	4.90	4.33
2,500	3.75	3.27
5,000	3.20	2.76
7,500	2.97	2.55
10,000	2.83	2.42
15,000	2.66	2.27
20,000	2.57	2.18
30,000	2.45	2.07
40,000	2.38	2.01

TABLE D-4. CRITICAL ACCIDENT RATES FOR "SPOTS" ON URBAN FOUR-LANE HIGHWAYS, INTERSTATES AND PARKWAYS (FIVE-YEAR PERIOD) (1986-1990)

		CRITICAL ACCIDEN'	T RATE (ACC/MV)	
		BY HIGHWA	AY TYPE	,
		FOUR-LANE DIVIDED		
	FOUR-LANE	(NON-INTERSTATE		
AADT	UNDIVIDED	AND PARKWAY)	INTERSTATE	PARKWAY
1,000	6.31	4.07	1.93	2.07
5,000	4.32	2.57	1.03	1.12
10,000	3.87	2.24	0.84	0.92
15,000	3.67	2.10	0.76	0.83
20,000	3.56	2.01	0.71	0.78
30,000	3.42	1.91	0.65	0.73
40,000	3.34	1.85	0.62	0.69
50,000	3.29	1.81	0.60	0.67
60,000	3.25	1.78	0.58	0.65
70,000	3.22	1.76	0.57	0.64
80,000	3.19	1.74	0.56	0.63
90,000	3.17	1.73	0.55	0.62
100,000	3.15	1.72	0.54	0.61

APPENDIX E TOTAL ACCIDENT RATES FOR ALL INCORPORATED CITIES

TABLE E-1. ACCIDENTS AND ACCIDENT RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1986-1990 DATA)

		NUMBER OF	ANNUAL ACCIDENTS			NUMBER OF	ANNU ACCIDEN
		ACCIDENTS	PER 1000			ACCIDENTS	PER 10
CITY	POPULATION	(86-90)	POPULATION	CITY	POPULATION	(86-90)	POPULATI
Adairville	906	32	7.1	Burnside	695	210	60
Albany	2062	766	74.3	Butler	625	58	18
Alexandria	5592	1161	41.5	Cadiz	2148	709	66
Allen	229	186	162.4	Calhoun	854	93	21
Anchorage	2082	194	18.6	California	130	*	
Annville	470	*	*	Calvert City	2531	370	29
Arlington	449	33	14.7	Camargo	1022	48	9
Ashland	23622	8181	69.3	Cambridge	193	*	
Auburn	1273	145	22.8	Campbellsburg	604	93	30
Audubon Park	1520	10	1.3	Campbellsville	9577	2791	58
Augusta	1336	146	21.9	Campton	484	385	159
Bancroft	582	*	*	Caneyville	549	128	46.
Barbourmeade	1402	16	2.3	Carlisle	1639	333	40
Barbourville	3658	1031	56.4	Carrollton	3715	1012	54
Bardstown	6801	2831	83.3	Carrsville	98	*	
Bardwell	819	61	14.9	Catlettsburg	2231	749	67.
Barlow	706	61	17.3	Cave City	1953	576	59
Beattyville	1131	453	80.1	Centertown	383	39	20
Beaver Dam	2904	792	54.5	Central City	4979	1518	61.
Bedford	761	168	44.2	Cherrywood Villag		*	
Reechwood Village	1263	*	*	Clarkson	611	46	15
Bellefonte	838	63	15.0	Clay	1173	139	23
Bellemeade	927	*	*	Clay City	1276	*	
Bellevue	6997	1165	33.3	Clinton	1720	*	
Bellewood	329	*	*	Cloverport	1207	170	28.
lenham	717	51	14.2	Coal Run	262	149	113.
Benton	3899	1264	64.8	Cold Spring	2880	1321	91.
Berea	9126	1777	38.9	Coldstream	862	*	
Berry	240	2	1.7	Columbia	3845	1450	75.
laine	271	11	8.1	Columbus	252	*	
landville	95	*	*	Concord	65	5	15.
loomfield	845	128	30.3	Corbin	7419	2969	80.
lue Ridge Manor	565	*	*	Corinth	137	109	159.
onnieville	300	76	50.7	Corydon	790	117	29.
ooneville	. 232	132	113.8	Covington	43264	15050	69.
owling Green	40641	17135	84.3	Crab Orchard	825	88	21.
radfordsville	199	30	30.2	Creekside	323	*	
randenburg	1857	680	73.2	Crescent Park	364	167	91.
remen	267	81	60.7	Crescent Springs	2179	1277	117.
riarwood	658	*	*	Crestview	356	7	3.
roadfields	273	*	*	Crestview Hills	2546	759	59.
rodhead	1140	*	*	Crestwood	1435	523	72.
roeck Point	325	*	*	Crittenden	731	204	55.
romley	1137	156	27.4	Crofton	699	135	38.
rooksville	670	199	59.4	Crossgate	261	*	
rownsboro Farm	670	*	*	Cumberland	3112	528	33.
rownsboro Village	361	*	*	Cynthiana	6497	1684	51.
rownsville	897	308	68.7	Danville	12420	3979	64.
urgin	1009	71	14.1	Dawson Springs	3129	497	31.
urkesville	1815	393	43.3	Dayton	6576	811	24.

TABLE E-1. ACCIDENTS AND ACCIDENT RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1986-1990 DATA)(continued)

CITY	POPULATION	NUMBER OF ACCIDENTS (86-90)	ANNUAL ACCIDENTS PER 1000	CITY	ODULATION	NUMBER OF ACCIDENTS	ACCIDEN PER 10
CITY	PUPULATION	(00-90)	POPULATION	CITY P	OPULATION	(86-90)	POPULATI
Dixon	552	174	63.0	Glenview Hills	353	*	
Douglass Hills	5549	*	*	Glenview Manor	197	*	
Dover	297	19	12.8	Goose Creek	321	*	
Drakesboro	565	125	44.2	Grand Rivers	351	52	29
Druid Hills	305	*	*	Gratz	65	13	40
Dry Ridge	1601	881	110.1	Graymoor	2911	21	1
Earlington	1833	166	18.1	Grayson	3510	1029	58
Eddyville	1889	90	9.5	Green Spring	768	*	
Edgewood	8143	1167	28.7	Greensburg	1990	569	57
Edmonton	1477	441	59.7	Greenup	1158	271	46
Ekron	110	15	27.3	Greenville	4689	1039	44
Elizabethtown	18167	7252	79.8	Guthrie	1504	37	4
Elkhorn City	813	153	37.6	Hanson	450	70	31
Elkton	1789	461	51.5	Hardin	595	68	22
Elsmere	6847	1025	29.9	Hardinsburg	1906	536	56
Eminence	2055	541	52.7	Karlan	2686	1409	104
Erlanger	15979	4196	52.5	Harrodsburg	7335	2259	61
Eubank	354	29	16.4	Hartford	2532	96	7
Evarts	1063	151	28.4	Hawesville	998	163	32
Ewing	268	35	26.1	Hazard	5416	2291	84
Fairfield	142	26	36.6	Hazel	460	36	15
Fairmeade	280	*	*	Hebron Estates	930	*	
Fairview	119	57	95.8	Henderson	25945	8389	64
Falmouth	2378	581	48.9	Hickman	2689	322	23
Ferguson	934	45	9.6	Hickory Hill	152	4	5
Fincastle	838	*	*	Highland Heights	4223	1436	68
Flatwoods	7799	1052	27.0	Hills And Dales	154	*	
Fleming-neon	759	*	*	Hillview	6119	*	
Flemingsburg	3071	692	45.1	Hindman	798	226	56
Florence	18624	9592	103.0	Hiseville	220	27	24
ordsville	522	107	41.0	Hodgenville	2721	677	49
orest Hills	454	35	15.4	Hollow Creek	991	*	
ort Mitchell	7438	1396	37.5	Hollyvilla	649	*	
ort Thomas	16032	1653	20.6	Hopkinsville	29809	7869	52.
ort Wright	6570	1995	60.7	Horse Cave	2284	85	7.
oster	65	*	*	Houston Acres	496	*	
ountain Run	259	14	10.8	Hunters Hollow	286	*	
ox Chase	528	*	*	Hurstbourne	4420	*	
rankfort	25968	7312	56.3	Hurstbourne Acres	1072	14	2.
ranklin	7607	1970	51.8	Hustonville	313	52	33.
redonia	490	57	23.3	Hyden	375	111	59.
renchburg	625	109	34.9	Independence	10444	1769	33.
ulton	3078	889	57.8	Indian Hills	1074	49	9.
iamaliel	462	16	6.9	Indian Hills Ch. Se		*	
leorgetown	11414	2968	52.0	Inez	511	174	68.
iermantown	213	60	56.3	Irvine	2836	859	60.
hent	365	30	16.4	Irvington	1180	112	19.
ilasgow	12351	4052	65.6	Island	446	71	31.
lencoe	257	51	39.7	Jackson	2466	793	64.
lenview	653	*	*	Jamestown	1641	329	40.

TABLE E-1. ACCIDENTS AND ACCIDENT RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1986-1990 DATA)(continued)

			ANNUAL				ANNL
		NUMBER OF	ACCIDENTS			NUMBER OF	ACCIDEN
		ACCIDENTS	PER 1000			ACCIDENTS	PER 10
CITY	POPULATION	(86-90)	POPULATION	CITY P	OPULATION	(86-90)	POPULATI
Jeffersontown	23221	4679	40.3	Meadowvale	798	*	
Jeffersonville	1854	79	8.5	Meadowview Estates	259	*	
Jenkins	2751	293	21.3	Melbourne	660	79	23
Junction City	1983	338	34.1	Mentor	169	34	40
Keeneland	393	*	*	Middlesboro	11328	2701	47
Kenton Vale	358	17	9.5	Middletown	5016	196	7
Kevil	337	78	46.3	Midway	1290	179	27
Kingsley	399	1	0.5	Millersburg	937	57	12
Kuttawa	535	22	8.2	Milton	563	143	50
Lacenter	1040	105	20.2	Minor Lane Heights	1675	27	3
Lafayette	106	*	*	Mockingbird Valley	177	15	16
Lagrange	3853	1160	60.2	Monterey	164	4	4
Lakeside Park	3131	471	30.1	Monticello	5357	1752	65
Lakeview Heights	252	*	*	Moorland	467	*	
Lancaster	3421	723	42.3	Morehead	8357	2543	60
Langdon Place	874	*	*	Morganfield	3776	861	45
Latonia Lakes	410	49	23.9	Morgantown	2284	853	74
Lawrenceburg	5911	1231	41.7	Mortons Gap	987	89	18
Lebanon	5695	1809	63.5	Mount Olivet	384	31	16
Lebanon Junction	1741	116	13.3	Mount Sterling	5362	2308	86
Leitchfield	4965	1772	71.4	Mount Vernon	2654	706	53
Lewisburg	772	121	31.3	Mount Washington	5226	740	28
Lewisport	1778	120	13.5	Muldraugh	1376	486	70
Lexington	225366	62783	55.7	Munfordville	1556	480	61
Liberty	1937	97	10.0	Murray	14439	3593	49
Lincolnshire	125	*	*	Murray Hill	619	*	
Livermore	1534	175	22.8	Nebo	227	53	46
Livingston	241	30	24.9	New Castle	893	63	14
London	5757	3033	105.4	New Haven	796	132	33
Lone Oak	465	221	95.1	Newport	18871	5609	59
Loretto	820	100	24.4	Nicholasville	13603	2752	40
Louisa	1990	602	60.5	Norbourne Estates	461	*	
Louisville	269063	91091	67.7	North Middletown	602	44	14
Loyall	1100	83	15.1	Northfield	898	81	18
Ludlow	4736	609	25.7	Nortonville	1209	134	22
Lynch	1166	63	10.8	Norwood	372	*	
Lyndon	8037	72	1.8	Oak Grove	2863	984	68
Lynnview	1017	7	1.4	Oakland	202	1	1
Mackville	200	14	14.0	Old Brownboro Place	348	*	
Madisonville	16200	6249	77.1	Olive Hill	1809	361	39
Manchester	1634	891	109.1	Orcharh Grass Hills	1058	*	
Manor Creek	179	*	*	Owensboro	53549	15177	56
Marion	3320	798	48.1	Owenton	1306	341	52
Martin	694	269	77.5	Owingsville	1491	415	55
Maryhill Estates	177	*	*	Paducah	27256	11789	86
Mayfield	9935	3543	71.3	Paintsville	4354	1818	83
Maysville	7169	3183	88.8	Paris	8730	2449	56
1 chenry	414	30	14.5	Park City	549	87	31
1ckee	870	217	49.9	Park Hills	3321	386	23
Meadowbrook Farm	163	*	*	Park Lake	263	*	

TABLE E-1. ACCIDENTS AND ACCIDENT RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1986-1990 DATA)(continued)

		NUMBER OF	ANNUAL ACCIDENTS			NUMBER OF	ACCIDEN
CITY	POPULATION	ACCIDENTS (86-90)	PER 1000 POPULATION	CITY	POPULATION	ACCIDENTS (86-90)	PER 10 POPULATI
Parkway Village	707	*	*	Seneca Gardens	684	*	
Pembroke	640	43	13.4	Sharpsburg	315	71	45
Perryville	815	102	25.0	Shelbyville	6238	2334	74
Pewee Valley	1283	234	36.5	Shepherdsville	4805	1785	74
Pikeville	6324	2229	70.5	Shively	15535	5588	7'
Pineville	2198	755	68.7	Silver Grove	1102	228	4
Pioneer Village	1130	*	*	Simpsonville	907	98	2
Pippa Passes	195	55	56.4	Slaughters	235	40	34
Plantation	830	20	4.8	Smithfield	115	13	22
Pleasureville	761	52	13.7	Smithland	384	314	163
Plum Springs	361	1	0.6	Smiths Grove	703	191	54
Plymouth Village	162	1	1.2	Somerset	10733	4739	88
Poplar Hills	377	*	*	Sonora	295	166	112
Powderly	748	134	35.8	South Carrollton	202	52	5
Prestonsburg	3558	1905	107.1	South Parkview	214	34	3
Prestonville	205	30	29.3	South Shore	1318	183	27
Princeton	6940	1442	41.6	Southgate	3266	494	30
Prospect	2788	*	*	Sparta	133	26	39
Providence	4123	710	34.4	Spring Mill	342	*	
Raceland	2256	240	21.3	Spring Valley	400	*	
Radcliff	19772	4252	43.0	Springfield	2875	750	52
Ravenna	804	106	26.4	Springlee	451	1	(
Raywick	157	*	*	Stamping Ground	698	61	17
Richlawn	435	*	*	Stanford	2686	768	57
Richmond	21155	7630	72.1	Stanton	2795	607	43
River Bluff	452	*	*	Strathmoor Garden	s 300	*	
Riverwood	506	*	*	Strathmoor Manor	391	*	
Robinswood	250	*	*	Strathmoor Village	e 361	*	
Rochester	191	4	4.2	Sturgis	2184	377	34
Rockport	385	24	12.5	Sycamore	70	*	
Rolling Fields	593	*	*	Taylor Mill	5530	799	28
Rolling Hills	1135	18	3.2	Taylorsville	774	137	35
Russell	4014	1659	82.7	Ten Broeck	128	*	
Russell Springs	2363	850	71.9	Thornhill	146	*	
Russellville	7454	2325	62.4	Tompkinsville	2861	720	50
Ryland Heights	279	*	*	Trenton	378	22	11
Sacramento	563	74	26.3	Union	1001	180	36
Sadieville	255	27	21.2	Uniontown	1008	99	19
Saint Charles	316	42	26.6	Upton	719	85	23
Saint Matthews	15800	5886	74.5	Vanceburg	1713	245	28
Saint Regis Park	1756	24	2.7	Versailles	7269	2264	62
Salem	770	9 5	24.7	Vicco	244	79	64
Salt Lick	342	83	48.5	Villa Hills	7739	387	10
Salyersville	1917	382	39.9	Vine Grove	3586	386	21
Sanders	231	2	1.7	Visalia	190	54	56
Sandy Hook	548	90	32.8	Wallins Creek	261	93	71
Sardis	171	12	14.0	Walton	2034	397	39
Science Hill	628	50	15.9	Warfield	364	77	42
Scottsville	4278	1597	74.7	Warsaw	1202	180	30
Sebree	1510	166	22.0	Washington	79 5	70	17

TABLE E-1. ACCIDENTS AND ACCIDENT RATES FOR ALL CITIES LISTED IN THE 1990 CENSUS (1986-1990 DATA)(continued)

		NUMBER OF	ANNUAL ACCIDENTS			NUMBER OF	ANNUA ACCIDENT
		ACCIDENTS	PER 1000			ACCIDENTS	PER 100
CITY	POPULATION	(86-90)	POPULATION	CITY	POPULATION	(86-90)	POPULATION
Water Valley	321	30	18.7	Williamsburg	5493	1303	47.
Waterson Park	1542	*	*	Williamstown	3023	587	38.8
Waverly	345	81	47.0	Willisburg	223	17	15.2
Wayland	359	43	24.0	Wilmore	4215	180	8.
Wellington	593	*	*	Winchester	15799	4057	51.4
West Buechel	1587	566	71.3	Winding Falls	657	*	•
West Liberty	1887	266	28.2	Windy Hills	2452	*	•
West Point	1216	345	56.7	Wingo	568	83	29.3
Westwood	734	124	33.8	Woodburg	117	*	1
Wheatcroft	206	34	33.0	Woodburn	343	28	16.3
Wheelwright	721	66	18.3	Woodland Hills	714	*	1
Whipps Millgate	454	*	*	Woodlawn	308	*	,
White Plains	598	66	22.1	Woodlawn Park	1099	*	,
Whitesburg	1636	624	76.3	Worthington	1751	81	9.:
Whitesville	682	143	41.9	Worthington Hills	973	*	
Wickliffe	851	244	57.3	Worthville	. 191	20	20.9
Wilder	691	324	93.8	Wurtland	1221	117	19.
Wildwood	266	*	*				

^{*} Data Not Available

APPENDIX F SAFETY BELT SUMMARY DATA

A comparison of the accident severity, in terms of the percentage of drivers sustaining a given injury, and the type of accident is presented in Table F-1. The use of a safety belt was shown to be effective in all types of accidents. As would be expected, the largest reductions occurred as a result of wearing a safety belt in the most severe accident types. For example, non-intersection "fixed object", "ran off road", and "overturned in road" accidents were some of the most severe accident types, and there was a large reduction in severity when a safety belt was used when those types of accidents occurred. In contrast, parking lot accidents were not severe and there was little difference in accident severity when wearing or not wearing a safety belt.

Accident severity versus safety belt usage by speed was analyzed and tabulated in Table F-2. It was shown that safety belts are effective in reducing serious injuries for speed limits in the range of 25 to 55 mph. Accident severity was less for the 25-mph speed limit, as would be expected.

The severity of injury versus ejection from the vehicle was investigated, as shown in Table F-3, since a major benefit associated with wearing a safety belt is greatly reducing the chances of ejection from the vehicle. The serious consequences of ejection are shown with the percent of fatalities involving ejection being 67 times that if not ejected.

Safety belt usage by age and sex of the driver is shown in Table F-4. Usage for females was slightly above that for males. When age was considered, usage was highest for the age range of 35 through 44 years and lowest for the age range of 16 through 19 years. Usage was lower for the youngest and oldest age categories.

TABLE F-1. ACCIDENT SEVERITY VERSUS SAFETY BELT USAGE BY ACCIDENT TYPE (DRIVERS OF PASSENGER CARS)
(1986-1990)

		NUMBER SUST		PERCENTAGE S		
ACCIDENT	TYPE OF	A GIVEN I		A GIVEN I		
TYPE	INJURY	SAFETY BELT	WEARING SAFETY BELT	NOT WEARING	WEARING	
Intersection	Fatal	150	35	0.12	SAFETY BELT 0.06	50**
Angle	Incapacitating	3,892	1,258	3.24	2.08	36**
-	Non-Incapacitating	7,512	2,889	6.26	4.79	23**
	Possible	8,050	3,636	6.71	6.02	10**
Intersection	Fatal	8	4	0.01	0.01	0
Rear End	Incapacitating	970	466	1.28	0.92	28**
	Non-Incapacitating	2,344	1,134	3.10	2.24	28**
	Possible	4,492	2,826	5.93	5.57	6**
Intersection	Fatal	13	3	0.10	0.05	50
Left Turn	Incapacitating	537	153	4.08	2.34	43**
	Non-Incapacitating	919	324	6.99	4.95	29**
	Possible	855	375	6.50	5.73	12
Intersection	Fatal	32	2	0.55	0.08	85**
Fixed Object	Incapacitating	577	77	9.86	3.14	68**
	Non-Incapacitating	916	230	15.66	9.39	40**
	Possible	647	190	11.06	7.76	30**
Intersection	Fatal	5	0	0.03	0.00	100
Side Swipe	Incapacitating	129	49	0.77	0.48	38**
	Non-Incapacitating	300	135	1.79	1.32	26**
•	Possible	438	235	2.61	2.30	12
Non-Intersection	Fatal	44	5	0.04	0.01	75**
Rear End	Incapacitating	1,705	723	1.53	1.07	30**
	Non-Incapacitating	3,963	1,770	3.57	2.62	27**
	Possible	7,345	4,131	6.61	6.10	8**
Non-Intersection	Fatal	438	50	4.29	1.71	60**
Head On	Incapacitating	1,313	299	12.87	10.24	20**
	Non-Incapacitating Possible	1,363 1,095	350 336	13.36 10.73	11.98 11.50	10 -7
		·				•
Non-Intersection	Fatal	115	11	0.25	0.07	72**
Sideswipe	Incapacitating	2,002	375	4.27	2.36	45**
	Non-Incapacitating Possible	3,060 3,070	664 761	6.52 6.55	4.17 4.78	36** 27**
		2,2,0	,01	0.33	4.70	27
Non-Intersection Vehicle Parked	Fatal Incapacitating	14	2	0.07	0.03	57
enicle Parked	Non-Incapacitating	387 889	63	1.85	1.05	43**
	Possible	664	139 130	4.25 3.18	2.31 2.16	46** 32**
On-Intersection	makal					
ixed Object	Fatal Incapacitating	600	42	1.50	0.26	83**
rved oplect	Non-Incapacitating	4,922 7,321	855	12.31 18.30	5.22	58**
	Possible	5,120	1,907 1,878	12.80	11.64 11.47	36** 10**
			•			
on-Intersection un Off Road	Fatal	302	21	1.38	0.25	82**
di OII KOMU	Incapacitating Non-Incapacitating	2,749 4,599	532	12.60	6.34	50**
	Possible	3,461	1,143 1,234	21.08 15.87	13.62 14.70	35** 7
on-Intersection	Fatal	66	2	2.11	0.14	93**
verturned In Road		477	2 105	2.11 15.24	7.24	93** 52**
	Non-Incapacitating	718	288	22.94	19.86	13
	Possible	559	247	17.86	17.03	5
on-Intersection	Fatal	2	0	0.00	0.00	DNA
arking Lot	Incapacitating	182	40	0.21	0.14	33**
• • • • •	Non-Incapacitating	444	119	0.52	0.42	19**
	Possible	808	292	0.95	1.03	-8**

^{*} A negative sign means the percentage sustaining a given injury while wearing safety belt was higher than that when not wearing a safety belt.

^{**} Statistically significant change (probability of 0.99).

TABLE F-2. ACCIDENT SEVERITY VERSUS SAFETY BELT USAGE BY SPEED LIMIT (DRIVERS OF PASSENGER CARS)*

		PERCENTAGE	SUSTAINING		
SPEED	_	A GI	VEN INJURY		
LIMIT	TYPE OF	NOT WEARING	WEARING	PERCENT	
(MPH)	INJURY	SAPETY BELT	SAFETY BELT	REDUCTION**	
25	PATAL	0.03	0.01	67	
	INCAPACITATING	0.83	0.75	10	
	NON-INCAPACITATING	2.95	1.97	33	
	Possible	3.97	3.26	18	
35	FATAL	0.08	0.01	88	
	INCAPACITATING	2.31	1.23	47	
	NON-INCAPACITATING	4.88	3.14	36	
	Possible	5.62	4.74	16	
45	PATAL	0.17	0.03	82	
	INCAPACITATING	3.22	1.41	56	
	NON-INCAPACITATING	6.13	3.84	37	
	Possible	7.64	6.85	10	
55	FATAL	0.90	0.21	77	
	INCAPACITATING	7.13	3.62	49	
	NON-INCAPACITATING	10.41	7.16	31	
	POSSIBLE	9.08	8.55	6	

^{*} Based on 1985-1989 accident data.

TABLE F-3. SEVERITY OF INJURY VERSUS EJECTION (DRIVERS OF PASSENGER CARS)*

_		PERCENT WITH	GIVEN INJURY
TYPE OF INJURY	EJECTED	NOT EJECTED	PERCENT EJECTED/ PERCENT NOT EJECTED
PATAL	9.74	0.15	67
INCAPACITATING	26.59	2.55	10
NON-INCAPACITATING	13.68	4.91	3
POSSIBLE	9.94	5.82	2

Based on 1986-1990 accident data.

TABLE F-4. SAFETY BELT USAGE BY AGE AND SEX (DRIVERS OF PASSENGER CARS)*

		PERCENT USAGE	
VARIABLE	CATEGORY	1986-1990	1990
AGE	16-19	21.8	30.6
	20-24	29.9	42.7
	25-34	35.1	46.3
	35-44	37.5	49.6
	45-54	35.7	47.9
	55-64	34.1	46.5
	65 OR OLDER	30.0	41.2
SEX	MALE	30.2	41.3
	FEMALE	36.5	49.2

^{*} Based on 1986-1990 accident data.

^{**} A negative sign means the percentage sustaining a given injury while wearing a safety belt was higher than that when not wearing a safety belt.